Computing Reviews

BIBLIOGRAPHY and SUBJECT INDEX of CURRENT COMPUTING LITERATURE

1972

CHICAGO CIRCLE

Edited by
AARON FINERMAN, LEE REVENS, and MARY NEUMEYER

PUBLISHED BY THE ASSOCIATION FOR COMPUTING MACHINERY

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of
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ACKNOWLEDGMENTS

The production of a Permuted and Subject Index of this scope involved the active participation of many individuals and organizations. We single out below some of the principal contributors; however, we express our appreciation to the numerous other participants who made the project possible.

In particular, Marc Feldman of the Jet Propulsion Laboratories developed the programs and coordinated the activities at JPL necessary for producing this Index. The programs were run on the UNIVAC 1108-EXEC 8 computing system.

Finally, we wish to express our deep appreciation for all the attentive critics and alert users who generously informed us of the merits and utility of the previous indexes—and articulately prodded us into making the necessary improvements.

INTRODUCTION

THIS VOLUME continues the broader coverage, initiated in the 1966 Index, by going beyond citation of materials reviewed in COMPUTING REVIEWS. While this remains essentially an annotated bibliography through keying the citations to reviews that have appeared in COMPUTING REVIEWS, a step toward comprehensiveness is taken by citing nonreviewed materials representing: (1) works that normally should have been reviewed earlier in *CR*'s history but that for diverse reasons failed to appear, and (2) marginal materials that could not be processed with our limited facilities of space, staff, and volunteer reviewers, but that still merit listing in a full-scale bibliography. This category has 0000 as the first part of the key number; such materials will probably never be reviewed in *CR*.

Comprehensiveness of coverage deserves further discussion. It is possible to regard comprehensiveness as automatic coverage of every paper in a selected list of periodicals, even when these are trivial, or of limited pertinence to computing, but it is also possible to regard it as coverage of all pertinent articles from a wide range of materials, including the single article in a particular issue of a periodical that normally does not touch on computing, while deliberately omitting coverage of nonpertinent papers in periodicals that are generally concerned with computing. The emerging policy of *CR* and its index volumes is to blend these definitions, and undertake to be comprehensive by citing every paper in a selected list of periodicals and proceedings, while reviewing only those that are substantive and pertinent; and to review pertinent, substantive materials wherever findable in sources apart from this announced list. With these standards, more adequately applied since the first issue of 1967, *CR* undertakes to provide, in its index volumes, a bibliography of computing literature that is increasingly truly comprehensive. The bibliography of the current Index references approximately 2200 titles.

TO THE USER

Reference Code:

The reference number directs the reader to the issue of COMPUTING REVIEWS that contains the review of that material. This reference number is a key to the year, volume, issue and review number. (Thus 72131 22,366 represents 1972, volume 13, issue 1, and review number 22,366.)

Bibliography and Author Index:

Apparent redundancies may be noted in the Author Index and the Bibliography. As may be recognized, this results from the policy of citing, when possible, all the contributing authors and their individual papers for anthologies or composite volumes that have a general title and editor. Thus, under a main entry review, the Bibliography will show the principal title (e.g., *Advances in Computers*), and all the authors and editors; but under separate reviews of individual papers, the title and author again. Similarly, the Author Index may show the author twice: once for the principal title, and once for his individual contribution. As an additional service to the reader, if the original paper (not the review) was in a language other than English, the citation indicated the language in parenthesis (e.g., Russian) following the title.

In using the Author Index, multiple reviews of seemingly identical material will occasionally be referenced. This happens most frequently when the material came as a full (translated) paper from one source, and was independently picked up at another time from a foreign language abstract or review journal, and cited as a title only. These diverse sources, it may be noted, offer variant translations of titles—as those working in mechanical translation would expect—thus making difficult the editorial problems of eliminating such multiple reviews.

Permuted Index and Classification Index:

In general, a Permuted Index requires minimal editing, and lets the user develop his own retrieval approaches, cautioning him only as to words that have been blocked, and some inflexibilities of machine indexing.

To maximize the subject index (Classification Section) utility of this volume it is suggested that the user identify the *CR* category headings (given in full pp. ix, x) that relate to his topic, and systematically search the listing under each Classification at the appropriate subsection levels. The occasional parallelisms and apparent redundancies of the *CR* classification system are a tribute to the encompassing range of information processing and its applications. Distinctions and differentations turn on the fact (implied when not explicit) that computing and information processing are the orientation of the categories. Thus, 1.0 *General Topics and Education* is about computing and education in computing. In 3.32 the "education" stands for the application of computing to education of any sort, (not just of education about computing), as a tool of research in education, as a facilitator of teaching methods (e.g., computer-aided teaching machines, classroom consoles, etc., would be reviewed here); in contrast, at 3.51 the managerial aspects of education, as aided by computer, from student registration and class-sectioning, to the largest problems of school administration are reviewed. Similarly, 5.5 is not statistics, but about computing applied to statistics, as in Monte Carlo methods, and random number generation, and about statistical work that contributes to computing theory and practice.

It may be noted that the Permuted Index and the Classification Section supplement one another in providing the user with, first, a narrow topic guide, and secondly, a safety net. The contrasting virtues and utilities of the two sections may be illustrated by (actual) retrieval questions. If the user wants, for example, materials on classroom sectioning and scheduling by computer, he can, in the Permuted Section look under *scheduling, sectioning,* and even *class assignment*. But, if the author of a paper has used none of these terms in the title, the paper can still be retrieved by looking in 3.32 *Applications in Social*

Sciences—Education; Welfare, and in 3.51 *Applications in Management Data Processing—Education.*

The Permuted Index Section is time-saving if the significant word is definite and appears in the title, since the user can then turn immediately to that word in its alphabetical order. The Classification Section provides a longer listing, but guarantees that reading through it will turn up every relevant title, no matter how disguised in its wording. Further, the fact that the reviews were cross-referenced by the reviewer and *CR* staff assures that materials having a bearing on the user's topic will be retrieved, even if primarily not a title or a classification he would ordinarily consult. Thus, a paper on computing centers at universities (classified under 2.40 *Administration of Computing Centers, General*) that discussed the class-scheduling system produced as a service to the university would appear under 3.51 because the reviewer had noted its pertinence to this category.

Titles vary in the fashion in which they referred to specific computers and model numbers. Again, to assure consistent permuting, the manufacturer's name (in parenthesis) has been added to the title when the model number was listed without it. The user should therefore look under the manufacturer when seeking references to a specific machine.

Blocked Words:

Conventionally, a permuted index is modified by a varying number of blocked words—words not used as an entry. These are usually non-significant particles (a, and, for, which, etc.). To these are frequently added the words in the particular subject matter that would swamp the index by turning up too often. (In this volume, for example, *computing, automatic, programming, etc.*) A rather more critical standard was necessary for the present index. The user should note that numerals, prepositions, conjunctions, pronouns, auxiliary verbs in all their forms, and the like have been blocked. In addition, vague words (recent, new) and many words that occurred only once or twice, and are not essentially self-evident keywords in computing, have also been blocked (arise, lag, quarterly, today, etc.). Place names have generally (but not always) been blocked.

Hyphens were used when necessary to prevent blocking of phrases consisting of words that are each blocked individually. Thus, although each of the three words in electronic-data-processing is blocked, the phrase is made to permute as a unit by adding hyphens to the original title.

The user is reminded that if any entry is not found in the Permuted Section where he expects it, consulting the Classification Section may guide him to the location of material he is seeking.

CATEGORIES OF THE COMPUTING SCIENCES

CLASSIFICATION SYSTEM FOR COMPUTING REVIEWS

1. GENERAL TOPICS AND EDUCATION
   - 1.0 General
   - 1.1 Texts; Handbooks
   - 1.2 History; Biographies
   - 1.3 Introductory and Survey Articles
   - 1.4 Glossaries
   - 1.5 Education
     - 1.50 General
     - 1.51 High School Courses and Programs
     - 1.52 University Courses and Programs
     - 1.53 Certification; Degrees; Diplomas
     - 1.59 Miscellaneous
   - 1.9 Miscellaneous

2. COMPUTING MILIEU
   - 2.0 General
   - 2.1 Philosophical and Social Implications
     - 2.10 General
     - 2.11 Economic and Sociological Effects
     - 2.12 The Public and Computers
     - 2.19 Miscellaneous
   - 2.2 Professional Aspects
   - 2.3 Legislation; Regulations
   - 2.4 Administration of Computing Centers
     - 2.40 General
     - 2.41 Administrative Policies
     - 2.42 Personnel Training
     - 2.43 Operating Procedures
     - 2.44 Equipment Evaluation
     - 2.45 Surveys of Computing Centers
     - 2.49 Miscellaneous
   - 2.9 Miscellaneous

3. APPLICATIONS
   - 3.1 Natural Sciences
     - 3.10 General
     - 3.11 Astronomy; Space
     - 3.12 Biology
     - 3.13 Chemistry
     - 3.14 Earth Sciences
     - 3.15 Mathematics; Number Theory
     - 3.16 Meteorology
     - 3.17 Physics; Nuclear Sciences
     - 3.19 Miscellaneous
   - 3.2 Engineering
     - 3.20 General
     - 3.21 Aeronautical; Space
     - 3.22 Chemical
     - 3.23 Civil
     - 3.24 Electrical; Electronic
     - 3.25 Engineering Science
     - 3.26 Mechanical
     - 3.29 Miscellaneous
   - 3.3 Social and Behavioral Sciences
     - 3.30 General
     - 3.31 Economics
     - 3.32 Education; Welfare
     - 3.33 Law
     - 3.34 Medicine; Health
     - 3.35 Political Science
     - 3.36 Psychology; Anthropology
     - 3.37 Sociology
     - 3.39 Miscellaneous
   - 3.4 Humanities
     - 3.40 General
     - 3.41 Art
     - 3.42 Language Translation and Linguistics
     - 3.43 Literature
     - 3.44 Music
     - 3.49 Miscellaneous
   - 3.5 Management Data Processing
     - 3.50 General
     - 3.51 Education; Research
     - 3.52 Financial
     - 3.53 Government
     - 3.54 Manufacturing; Distribution
     - 3.55 Marketing; Merchandising
     - 3.56 Military
     - 3.57 Transportation; Communication
     - 3.59 Miscellaneous
   - 3.6 Artificial Intelligence
     - 3.60 General
     - 3.61 Induction and Hypothesis-formation
     - 3.62 Learning and Adaptive Systems
     - 3.63 Pattern Recognition
     - 3.64 Problem-solving
     - 3.65 Simulation of Natural Systems
     - 3.66 Theory of Heuristic Methods
     - 3.69 Miscellaneous
   - 3.7 Information Retrieval
     - 3.70 General
     - 3.71 Content Analysis
     - 3.72 Evaluation of Systems
     - 3.73 File Maintenance
     - 3.74 Searching
     - 3.75 Vocabulary
     - 3.79 Miscellaneous
   - 3.8 Real Time Systems
     - 3.80 General
     - 3.81 Communications
     - 3.82 Industrial Process Control
     - 3.83 Telemetry; Missiles; Space
     - 3.89 Miscellaneous
   - 3.9 Miscellaneous

4. PROGRAMMING
   - 4.0 General
   - 4.1 Processors
     - 4.10 General
     - 4.11 Assemblers
     - 4.12 Compilers and Generators
     - 4.13 Interpreters

4.19 Miscellaneous
4.2 Programming Languages
4.20 General
4.21 Machine Oriented Languages
4.22 Procedure and Problem Oriented Languages
4.29 Miscellaneous
4.3 Supervisory Systems
4.30 General
4.31 Basic Monitors
4.32 Multiprogramming; Multiprocessing
4.39 Miscellaneous
4.4 Utility Programs
4.40 General
4.41 Input/Output
4.42 Debugging
4.43 Program Maintenance
4.49 Miscellaneous
4.9 Miscellaneous

5. MATHEMATICS OF COMPUTATION
5.0 General
5.1 Numerical Analysis
5.10 General
5.11 Error Analysis; Computer Arithmetic
5.12 Function Evaluation
5.13 Interpolation; Functional Approximation
5.14 Linear Algebra
5.15 Nonlinear and Functional Equations
5.16 Numerical Integration and Differentiation
5.17 Ordinary and Partial Differential Equations
5.18 Integral Equations
5.19 Miscellaneous
5.2 Metatheory
5.20 General
5.21 Formal Logic
5.22 Automata; Turing Machines
5.23 Mechanical and Algorithmic Languages
5.24 Theory of Programming
5.29 Miscellaneous
5.3 Combinatorial and Discrete Mathematics
5.30 General
5.31 Sorting
5.32 Graph Theory
5.39 Miscellaneous
5.4 Mathematical Programming
5.40 General
5.41 Linear and Nonlinear Programming
5.42 Dynamic Programming
5.49 Miscellaneous
5.5 Mathematical Statistics; Probability
5.6 Information Theory
5.9 Miscellaneous

6. DESIGN AND CONSTRUCTION
6.0 General
6.1 Logical Design; Switching Theory
6.2 Computer Systems
6.20 General
6.21 General Purpose Computers
6.22 Special Purpose Computers
6.29 Miscellaneous
6.3 Components and Circuits
6.30 General
6.31 Circuit Elements
6.32 Arithmetic Units
6.33 Control Units
6.34 Storage Units
6.35 Input/Output Equipment
6.36 Auxiliary Equipment
6.39 Miscellaneous
6.9 Miscellaneous

7. ANALOG COMPUTERS
7.0 General
7.1 Applications
7.2 Design; Construction
7.3 Hybrid Systems
7.4 Programming; Techniques
7.9 Miscellaneous

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13 1 22368 THE SOKEN KIYO (REPORTS OF RESEARCH ACTIVITIES ON COMPUTER SCIENCES AND TECHNOLOGY).
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13 2 22706 ANALOGUE-TO-DIGITAL AND DIGITAL-TO-ANALOGUE CONVERTERS (BIBLIOGRAPHY).
13 3 22707 COMPUTERS & STRUCTURES.
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13 4 22886 COMPUTERS AND URBAN SOCIETY.
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13 12 24148 PROC. ACM 1972 ANNUAL CONF.
13 12 24149 THE BEST COMPUTER PAPERS OF 1971.
13 12 24154 TECHNOLOGICAL FORECAST 1971.

1.10 GENERAL TOPICS AND EDUCATION
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0 0 139 AN INTRODUCTION TO COMPUTING: IBM SYSTEM/3
0 0 140 SYSTEMS ANALYSIS AND DESIGN: IN AN IBM ENVIRONMENT.
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0 0 150 ADVANCES IN COMPUTERS, VOL. 12.
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72 13 12 24196 INTERACTION OF MANAGEMENT AND DATA PROCESSING IN THE DEVELOPMENT OF MANAGEMENT INFORMATION SYSTEMS.
72 13 12 24234 SOFTWARE ACCOUNTING AND THE HARDWARE MONITOR: THEIR MARRIAGE IN PERFORMANCE ANALYSIS.

2.42 COMPUTING MILIEU
ADMINISTRATION OF COMPUTING CENTERS - PERSONNEL TRAINING

72 13 1 22394 EDUCATIONAL YEARBOOK 1971-1972.
72 13 2 22545 PROC. NINTH ANNUAL COMPUTER PERSONNEL RESEARCH CONFERENCE.
72 13 2 22546 PROGRAMMER APTITUDE AND COMPETENCE TEST SYSTEM (PACTS).
72 13 2 22547 PREDICTING PERFORMANCE OF PROGRAMMER TRAINEES IN A POST-HIGH-SCHOOL SETTING.
72 13 2 22548 DISCUSSION ON PAPERS OF MUSSIO-WAHLSTROM AND SEINER.
72 13 2 22549 CURRENT PERSPECTIVES ON SELECTION TESTING.
72 13 2 22550 WOLFE PROGRAMMING APTITUDE TEST (SCHOOL EDITION).
72 13 3 22724 SATISFYING AND MOTIVATING THE SYSTEMS ANALYST.
72 13 3 22758 PERSONNEL IMPLICATIONS FOR BUSINESS DATA PROCESSING.
72 13 4 22894 MODERN DATA PROCESSORS AND SYSTEMS.
72 13 8 23645 MODULAR PROGRAMMING.
72 13 9 23741 AN ORGANIZATION FOR SUCESSFUL PROJECT MANAGEMENT.
72 13 9 23742 THE JUNIOR COLLEGE AS A SOURCE OF PROGRAMMING PERSONNEL.
72 13 10 23873 THE FUNCTIONS AND ELEMENTS OF A TRAINING SYSTEM.
72 13 10 23874 PLANNING DATA PROCESSING EDUCATION TO MEET JOB REQUIREMENTS.
72 13 10 23875 MODULAR TRAINING - A NEW EMPHASIS.
72 13 10 23876 COMPUTER TRAINING, PRESENT AND FUTURE.
72 13 10 23877 MANAGING THE NEW SEMI-PROFESSIONALS: PROGRAMMERS AND SYSTEMS ANALYSTS IN ORGANIZATIONS.
72 13 10 23930 PREPARING TO USE NUMERICAL CONTROL.

2.43 COMPUTING MILIEU
ADMINISTRATION OF COMPUTING CENTERS - OPERATING PROCEDURES

72 0 0 154 SCHEDULING COMPUTER OPERATIONS.
72 13 1 22377 A USER-ORIENTED APPROACH TO SYSTEMS DESIGN.
72 13 1 22380 COST-CUTTING THAT WORKS.
72 13 1 22450 THE KENT ON-LINE SYSTEM.
72 13 2 22533 PROSIM V ADMINISTRATOR'S MANUAL: PRODUCTION SYSTEM SIMULATOR.
72 13 2 22551 DOCUMENTATION AND THE MANAGEMENT OF A SOFTWARE PROJECT - A CASE STUDY.
72 13 3 22762 NETWORKS IN HIGHER EDUCATION. PROC. EDUCOM COUNCIL MEETING SEMINAR.
72 13 3 22805 DISCIPLINED SOFTWARE TESTING.
72 13 4 22915 EFFECTIVE CORPORATE NETWORKING, ORGANIZATION, AND STANDARDIZATION.
72 13 4 22916 THE CHECKERBOARDING PROBLEM.
72 13 4 22918 THE ECONOMICS OF NUMBER THEORETIC COMPUTATION.
72 13 5 23111 COMPUTER EMBEZZLEMENT - PREVENTION AND CONTROL.
72 13 5 23112 CLOSING THE GAP BETWEEN EDP AND THE USER.
72 13 5 23114 EFFICIENT CHOICE OF INFORMATION SERVICES.
72 13 6 23290 COMPUTER AND SOFTWARE SECURITY.
72 13 6 23291 SECURITY FOR BUSINESS AND INDUSTRY.
72 13 6 23294 COMPUTER EMBEZZLEMENT - PREVENTION AND CONTROL.
72 13 6 23295 ACCOUNTING CONTROL OF DATA PROCESSING.
72 13 6 23318 COMPUTER PERFORMANCE APPRAISAL.
72 13 7 23420 PERFORMANCE EVALUATION AND MONITORING.
72 13 7 23457 MAINTAINING A HEALTHY DATA BASE.
72 13 10 23954 PROTECTION - PRINCIPLES AND PRACTICE.
72 13 11 24023 MODELING, MEASUREMENT AND COMPUTER POWER.
72 13 11 24024 THE ROLE OF COMPUTER SYSTEM MODELS IN PERFORMANCE EVALUATION.
72 13 12 24160 SELECTIVE SECURITY CAPABILITIES IN ASAP - A FILE MANAGEMENT SYSTEM.
72 13 12 24161 PRIVACY AND PROTECTION IN OPERATING SYSTEMS.
72 13 12 24162 SYSTEMS ANALYSIS STRATEGY.
72 13 12 24233 OPERATING SYSTEM PERFORMANCE.
72 13 12 24243 AN IBM 1130 COMPUTER ACCOUNTING ROUTINE.

2.44 COMPUTING MILIEU
ADMINISTRATION OF COMPUTING CENTERS - EQUIPMENT EVALUATION

72 13 2 22535 TEACHING A COURSE IN REAL-TIME COMPUTER SYSTEMS DESIGN.
72 13 2 22552 A GUIDE TO ACCEPTANCE TESTING OF COMPUTER SOFTWARE.
72 13 3 22714 MINICOMPUTERS: FOUR-FOLD GROWTH BY 1975.
72 13 3 22800 ANALYSING THE PERFORMANCE OF THE CP-67 TIME-SHARING SYSTEM.
72 13 3 22874 AUERBACH TERMINAL EQUIPMENT DIGEST.
72 13 3 22875 OCR ENTERS THE PRACTICAL STAGE.
72 13 4 23078 THE NEUROTRON MONITOR SYSTEM.
72 13 4 23087 MODELING FOR COMPUTING CENTER PLANNING.
72 13 5 23115 EVALUATION OF TECHNICAL-ECONOMICAL INDICATORS OF HIGH PERFORMANCE, HOMOGENEOUS, UNIVERSAL COMPUTING SYSTEMS.
72 13 5 23150 LET THE COMPUTER BUYER BEWARE.
72 13 6 23293 MAXIMUM COMPUTING POWER AND COST FACTORS IN THE CENTRALIZATION PROBLEM.
72 13 6 23296 TECHNICAL OVERVIEW: EQUIPMENT.
72 13 6 23318 COMPUTER PERFORMANCE APPRAISAL.
72 13 7 23420 PERFORMANCE EVALUATION AND MONITORING.
72 13 9 23743 COMMERCIAL DATA PROCESSING MACHINES IN GOVERNMENT APPLICATIONS.
72 13 10 23878 PERFORMANCE EVALUATION - A STRUCTURED APPROACH.
72 13 11 24023 MODELING, MEASUREMENT AND COMPUTER POWER.
72 13 11 24024 THE ROLE OF COMPUTER SYSTEM MODELS IN PERFORMANCE EVALUATION.
72 13 11 24025 VALIDATION OF A TRACE-DRIVEN CDC-6400 SIMULATION.
72 13 11 24035 A NOTE ON THE THEORY OF REPLACEMENT.

2.45 COMPUTING MILIEU
ADMINISTRATION OF COMPUTING CENTERS - SURVEYS/COMPUTING CTRS

72 13 3 22719 THE LIFE SCIENCES COMPUTER RESOURCES PROGRAM OF THE NATIONAL INSTITUTES OF HEALTH.
72 13 6 23297 SATISFACTION OF COMPANIES WITH SERVICES RECEIVED FROM EDP SERVICE BUREAUS.
72 13 7 23508 NETWORKS: AN INTRODUCTION.
72 13 8 23710 IBM COMPUTER NETWORK/440.
72 13 8 23711 OCTOPUS: THE LAWRENCE RADIATION LABORATORY NETWORK.
72 13 10 23876 COMPUTER TRAINING, PRESENT AND FUTURE.
72 13 10 23910 AN EXPERIMENTAL LABORATORY FOR PATTERN RECOGNITION AND SIGNAL PROCESSING.

2.49 COMPUTING MILIEU
ADMINISTRATION OF COMPUTING CENTERS - MISCELLANEOUS

72 0 0 2 COMPUTER AND SOFTWARE SECURITY.
72 13 1 22381 HOW TO ANALYZE COMPUTER PROJECT COSTS.
72 13 1 22447 SOFTWARE ENGINEERING TECHNIQUES USED IN THE DEVELOPMENT OF THE CAMBRIDGE MULTIPLE-ACCESS SYSTEM.
72 13 2 22553 INTRODUCTION TO SALARY SURVEY.
72 13 3 22723 SECURITY CONTROLS FOR COMPUTER SYSTEMS.
72 13 3 22790 AN ANALYSIS OF THE MACHINE INTERFERENCE MODEL.
72 13 3 22873 ACCESSIBILITY AND THE SMALL COMPUTER.
72 13 4 22913 IS YOUR COMPUTER INSECURE?
72 13 4 22914 HOW VULNERABLE IS THE COMPUTER SYSTEM?
72 13 4 22969 INVENTORY OF AUTOMATIC DATA PROCESSING EQUIPMENT IN THE UNITED STATES.
72 13 4 22985 MULTI-DIMENSIONAL SECURITY PROGRAM FOR A GENERALIZED INFORMATION RETRIEVAL SYSTEM.
72 13 4 23076 DEVELOPMENT OF A COMPUTER SYSTEMS INDUSTRY.
72 13 5 23150 LET THE COMPUTER BUYER BEWARE.
72 13 6 23298 PROPRIETARY SOFTWARE IN THE 1970'S.
72 13 9 23616 THE FACILITIES MANAGEMENT CONTRACT.
72 13 9 23732 THE EMERGENCE OF THE COMPUTER UTILITY.
72 13 9 23744 TWO SUB-CULTURES: DP AND MANAGEMENT.
72 13 9 23797 MERIT COMPUTER NETWORK: HARDWARE CONSIDERATIONS.
72 13 9 23811 ON THE IMPLEMENTATION OF SECURITY MEASURES IN INFORMATION SYSTEMS.
72 13 10 23932 BUYING AN NC MACHINE TOOL.
72 13 12 24159 COMPUTER SECURITY.
72 13 12 24162 SYSTEMS ANALYSIS STRATEGY.

2.90 COMPUTING MILIEU
MISCELLANEOUS

72 13 1 22382 COMMUNICATING WITH YOUR HEAD.
72 13 1 22429 THE PRODUCTION OF MATHEMATICAL SOFTWARE FOR A MASS AUDIENCE.
72 13 2 22542 COMMON SENSE: WISDOM, GENERAL SCIENCE, AND COMPUTERS.
72 13 4 23082 MANUFACTURING COMPUTER PRODUCTS.
72 13 5 23116 THE INTERNATIONAL COMPUTER INDUSTRY: INNOVATION AND COMPARATIVE ADVANTAGE.
72 13 6 23286 SOURCES OF INFORMATION.
72 13 6 23290 COMPUTER AND SOFTWARE SECURITY.
72 13 6 23291 SECURITY FOR BUSINESS AND INDUSTRY.

3.10 APPLICATIONS
NATURAL SCIENCES - GENERAL

72 13 3 22707 COMPUTERS & STRUCTURES.
72 13 3 22710 INTRODUCTION TO SCIENTIFIC COMPUTING.
72 13 5 23117 A MACHINE INDEPENDENT FORTRAN DATA MANAGEMENT SOFTWARE SYSTEM FOR SCIENTIFIC ENGINEERING APPLICATIONS.
72 13 6 23299 SOME OBSERVATIONS ON A PAPER BY LANCE AND WILLIAMS.
72 13 6 23300 GROUP-SIZE DEPENDENCE: A RATIONALE FOR CHOICE BETWEEN NUMERICAL CLASSIFICATIONS.
72 13 6 23301 CONTROVERSY CONCERNING THE CRITERIA FOR TAXONOMETRIC STRATEGIES.
72 13 9 23755 DATA BANKS IN THE PHYSICAL SCIENCES AND ENGINEERING.
72 13 10 23879 SCIENTIFIC APPLICATIONS OF COMPUTERS IN THE '70S.

3.11 APPLICATIONS
NATURAL SCIENCES - ASTRONOMY, SPACE

72 13 2 22554 AUTOMATED ALGEBRAIC MANIPULATION IN CELESTIAL MECHANICS.

3.12 APPLICATIONS
NATURAL SCIENCES - BIOLOGY

72 13 2 22555 AUTOMATED INFORMATION-HANDLING IN PHARMACOLOGY RESEARCH.
72 13 2 22555 STATE OF THE COMPUTER ART IN BIOLOGY. (PANEL SESSION)
72 13 2 22555 COMPUTER APPLICATIONS IN CELLULAR RESEARCH - THREE-DIMENSIONAL
72 13 2 22555 COMPUTER APPLICATIONS IN POPULATION STUDIES.
72 13 2 22555 MOLECULAR BIOLOGY AS IT RELATES TO DIGITAL IMAGE PROCESSING.
72 13 2 22555 COMPUTERS IN PHYSIOLOGICAL MODELING.

BRAIN RECONSTRUCTIONS.

2 13 2 22569 FUTURE GOALS OF ENGINEERING IN BIOLOGY AND MEDICINE.
2 13 2 22579 MULTIPLE CHANNEL DIRECT DIGITAL RECORDING OF EEG DATA.
2 13 2 22628 COMPUTER THEORY AND TECHNOLOGY - 1.
2 13 2 22632 COMPUTER THEORY AND TECHNOLOGY - 2.
2 13 3 22719 THE LIFE SCIENCES COMPUTER RESOURCES PROGRAM OF THE NATIONAL INSTITUTES OF HEALTH.
2 13 3 22745 THE TELEVISION/COMPUTER SYSTEM - THE ACQUISITION AND PROCESSING OF CARDIAC CATHETERIZATION DATA USING A SMALL COMPUTER.
2 13 3 22784 RECOGNITION SYSTEM FOR HANDWRITTEN LETTERS SIMULATING VISUAL NERVOUS SYSTEM.
2 13 4 22917 COMPUTER DETECTION, CLASSIFICATION, AND ANALYSIS OF NEUTRONAL SPIKE SEQUENCES.
2 13 4 22977 ADAPTIVE MODEL CONTROL APPLIED TO REAL-TIME BLOOD-PRESSURE REGULATION.
2 13 5 23118 PRINCIPLES OF CONSTRUCTING ADAPTIVE SEARCH ALGORITHMS FOR BIOLOGICAL AND TECHNICAL SYSTEMS.
2 13 5 23119 DYNAMICS OF MICROBIAL POPULATIONS.
2 13 5 23120 OF SOWBUGS AND SYSTEMS: THE ECOLOGICAL BIOENERGETICS OF A TERRESTRIAL ISOPOD.
2 13 5 23121 COMPUTER ANALYSIS OF PREDATION ENERGETICS IN THE LARGE-MOUTH BASS.
2 13 5 23122 SYSTEMS APPROACHES TO THE STUDY OF FOREST FLOOR ARTHROPODS.
2 13 5 23123 SYSTEMS ANALYSIS AND SIMULATION IN ECOLOGY.
2 13 5 23168 A RATIONALE FOR MODELING DYNAMIC ECOLOGICAL SYSTEMS.
2 13 5 23270 A PRIMER FOR ECOLOGICAL MODELING AND SIMULATION WITH ANALOG AND DIGITAL COMPUTERS.
2 13 6 23302 PICTORIAL PATTERN RECOGNITION AND THE PHASE PROBLEM OF X-RAY CRYSTALLOGRAPHY.
2 13 7 23421 BIOLOGICAL SYSTEMS.
2 13 7 23422 THE CRAB EYE.
2 13 9 23747 A COMPARTMENT MODEL SIMULATION OF SECONDARY SUCCESSION.
2 13 9 23748 ANALOG COMPUTER MODELS OF 'THE WOLVES OF ISLE ROYALE.'
2 13 9 23749 COMPUTER SIMULATION OF ENERGY FLOW IN CEDAR BOG LAKE, MINNESOTA, BASED ON THE CLASSICAL STUDIES OF LINDEMAN.
2 13 10 23880 CYBERNETICS, LIFE, AND GENE ACTION.
2 13 10 23903 MEMORY IN CYBERNETIC SYSTEMS (FOUNDATIONS OF MNEMOLOGY).
2 13 10 23905 THE CEREBELLUM: A SUBSTRATE FOR LIST-PROCESSING IN THE BRAIN.
2 13 10 23906 AN INFORMATION PROCESSING APPROACH TO THEORY FORMATION IN BIOMEDICAL RESEARCH.
2 13 10 23912 INTERACTIVE COMPUTER-BASED GAME FOR DECISION-MAKING IN ECOLOGY.
2 13 11 24075 FIRST STEPS TOWARD A MODEL OF THE VERTEBRATE CENTRAL NERVOUS SYSTEMS.
2 13 11 24124 TOWARD AN AUTOMATA THEORY OF BRAINS.
2 13 12 24163 USE OF THE MATHEMATICAL 'SATELLITE MODEL' FOR DETERMINING THE FREQUENCY OF ASSOCIATIONS OF ACROCENTRIC CHROMOSOMES, DEPENDING ON HUMAN AGE.
2 13 12 24175 ELECTROCARDIOGRAPHIC POTENTIAL MAPPING BY COMPUTER.
2 13 12 24178 COMPUTER APPLICATIONS IN CLINICAL BIOCHEMISTRY.
2 13 12 24204 THE APPLICATION OF COMPUTERS TO MODEL PHYSIOLOGICAL EFFORT IN SCORING TABLES FOR TRACK AND FIELD.

3.13 APPLICATIONS
NATURAL SCIENCES - CHEMISTRY

72 13 2 22555 COMPUTER APPLICATIONS IN POPULATION STUDIES.
72 13 2 22555 COMPUTER APPLICATIONS IN CELLULAR RESEARCH - THREE-DIMENSIONAL
72 13 2 22555 STATE OF THE COMPUTER ART IN BIOLOGY. (PANEL SESSION)
72 13 2 22555 AUTOMATED INFORMATION-HANDLING IN PHARMACOLOGY RESEARCH.
72 13 2 22555 COMPUTERS IN PHYSIOLOGICAL MODELING.
72 13 2 22555 MOLECULAR BIOLOGY AS IT RELATES TO DIGITAL IMAGE PROCESSING. BRAIN RECONSTRUCTIONS.
72 13 6 23302 PICTORIAL PATTERN RECOGNITION AND THE PHASE PROBLEM OF X-RAY CRYSTALLOGRAPHY.
72 13 9 23745 COMPUTER HANDLING OF CHEMICAL STRUCTURE INFORMATION.
72 13 9 23746 OVERLAP EMISSIVITY OF CO2 AND H2O IN THE 15-UM SPECTRAL REGION.
72 13 9 23753 AIR QUALITY DIFFUSION MODEL: APPLICATION TO NEW YORK CITY.
72 13 9 23754 NUMERICAL INVESTIGATION OF THE ATMOSPHERIC DISPERSION OF STACK EFFLUENTS.
72 13 9 23853 STATUS REPORT: DEDICATED COMPUTERS IN CHEMISTRY.

3.14 APPLICATIONS
NATURAL SCIENCES - EARTH SCIENCES

72 0 0 99 COMPUTER PROGRAMS FOR GEOLOGY.
72 13 1 22383 SELECTED COMPUTER PROGRAMS.
72 13 1 22384 RAPP.
72 13 1 22465 HYBRID COMPUTER INTEGRATION OF HYPERBOLIC PARTIAL DIFFERENTIAL EQUATIONS BY A METHOD OF LINES.
72 13 2 22556 AUTOMATIC CARTOGRAPHY AND PLANNING.
72 13 2 22557 PLOTTER MAPPING (GYPSY 2 AND SURGE 2).
72 13 2 22558 MAP MAKING WITH THE ELECTRONIC DIGITAL COMPUTER.
72 13 2 22559 THE SCOPE OF COMPUTER MAPPING.
72 13 2 22560 RANDOM-WALK MODEL OF STREAM NETWORK DEVELOPMENT.
72 13 3 22725 NUMERICAL SIMULATION OF SUBSURFACE ENVIRONMENT.
72 13 3 22726 EXPERIMENTS WITH A LINE PRINTER FOR GRAPHIC REPRESENTATIONS.
72 13 3 22733 DIGITAL SIMULATION OF THE GENERAL ATMOSPHERIC CIRCULATION USING A VERY DENSE GRID.
72 13 3 22820 A NOTE ON QUADRILATERAL INTERPOLATION.
72 13 5 23122 SYSTEMS APPROACHES TO THE STUDY OF FOREST FLOOR ARTHROPODS.
72 13 5 23123 SYSTEMS ANALYSIS AND SIMULATION IN ECOLOGY.
72 13 6 23303 A DIGITAL PROCESSING SYSTEM FOR SEISMIC ARRAY DATA.
72 13 7 23423 ALGORITHMIC SELECTION OF THE BEST METHOD FOR COMPRESSING MAP DATA STRINGS.
72 13 7 23424 RATIONALE, LIMITATIONS, AND ASSUMPTIONS OF A NORTHEASTERN FOREST GROWTH SIMULATOR.
72 13 7 23425 SUBSURFACE HYDROLOGY AT WASTE DISPOSAL SITES.
72 13 7 23426 ESTIMATE OF SUBSIDENCE IN VENICE USING A ONE-DIMENSIONAL MODEL OF THE SUBSOIL.
72 13 7 23430 NONSUPERVISED CROP CLASSIFICATION THROUGH AIRBORNE MULTISPECTRAL OBSERVATIONS.
72 13 9 23747 A COMPARTMENT MODEL SIMULATION OF SECONDARY SUCCESSION.
72 13 9 23748 ANALOG COMPUTER MODELS OF 'THE WOLVES OF ISLE ROYALE.'
72 13 9 23749 COMPUTER SIMULATION OF ENERGY FLOW IN CEDAR BOG LAKE, MINNESOTA, BASED ON THE CLASSICAL STUDIES OF LINDEMAN.
72 13 9 23793 POSSIBILITIES OF GEOGRAPHICAL DATA ACQUISITION FOR INFORMATION SYSTEMS.
72 13 11 24145 ON-LINE SIMULATION EXPERIMENTS.
72 13 12 24164 A NEW APPROACH TO AUTOMATIC SCANNING OF CONTOUR MAPS.
72 13 12 24165 A COMPUTER SYSTEM FOR THE GENERATION OF THIESSEN POLYGON DESCRIPTIONS.

3.15 APPLICATIONS
NATURAL SCIENCES - MATHEMATICS, NUMBER THEORY

72 0 0 33 AN INTRODUCTION TO THE GEOMETRY OF NUMBERS.
72 0 0 55 MATHEMATICAL CIRCLES SQUARED.
72 13 1 22385 COMPUTERS IN NUMBER THEORY.
72 13 1 22386 HILBERT'S THEOREM 94.
72 13 1 22387 SOME RELATIONSHIPS SATISFIED BY ADDITIVE AND MULTIPLICATIVE RECURRENT CONGRUENTIAL SEQUENCES, WITH IMPLICATIONS FOR PSEUDORANDOM NUMBER GENERATION.
72 13 1 22388 SOME PROBLEMS IN NUMBER THEORY.
72 13 1 22389 SOME UNSOLVED PROBLEMS.
72 13 1 22530 ELEMENTARY ALGEBRA.
72 13 2 22561 DIOPHANTINE EQUATIONS INVOLVING GENERALIZED TRIANGULAR AND TETRAHEDRAL NUMBERS.
72 13 2 22562 ON THE REPRESENTATION OF AN INTEGER AS THE SUM OF FOUR INTEGER CUBES.
72 13 2 22563 ARITHMETIC PROPERTIES OF LINEAR RECURRENCES.
72 13 2 22564 USE OF COMPUTERS IN CYCLOTONY.
72 13 2 22565 CALCULATION OF THE FIRST FACTOR OF THE CYCLOTOMIC CLASS NUMBER.
72 13 2 22566 THE ENUMERATION OF PERFECT FORMS.
72 13 2 22567 LANGUAGES.
72 13 2 22568 ON EUCLID'S ALGORITHM AND THE COMPUTATION OF POLYNOMIAL GREATEST COMMON DIVISORS.
72 13 2 22663 SPECTRA OF DETERMINANT VALUES IN (0,1) MATRICES.
72 13 3 22727 ON THE FERMAT QUOTIENT.
72 13 3 22728 ROGERS-RAMANUJAN TYPE.
72 13 3 22729 COMPUTERS IN THE THEORY OF PARTITIONS.
72 13 3 22730 BINARY PARTITIONS.
72 13 3 22731 DETERMINING THE EQUIVALENCE OF ALGEBRAIC EXPRESSIONS BY HASH CODING.
72 13 3 22732 MULTIPLICATIVE PSEUDO-RANDOM NUMBER GENERATORS WITH PRIME MODULUS.
72 13 3 22859 OPTIMIZING THE POLYPHASE SORT.
72 13 3 22861 COMBINATORIAL ANALYSIS WITH VALUES IN A SEMIGROUP.
72 13 3 22863 DOUBLY PERIODIC ARRAYS.
72 13 3 22864 COUNTING POLYOMINOES.
72 13 4 22918 THE ECONOMICS OF NUMBER THEORETIC COMPUTATION.
72 13 4 22919 LINEAR RELATIONS CONNECTING THE IMAGINARY PARTS OF THE ZEROS OF THE ZETA FUNCTION.
72 13 4 22920 AN EXPLANATION OF SOME EXOTIC CONTINUED FRACITIONS FOUND BY BRILLHART.
72 13 4 22921 REDUCIBILITY OF POLYNOMIALS.
72 13 4 22922 SUMS OF SQUARES IN THE FUNCTION FIELD R(X,Y).
72 13 4 22923 THE LOCATION OF FOUR SQUARES IN AN ARITHMETIC PROGRESSION, WITH SOME APPLICATIONS.
72 13 4 22924 PRIMES FORMING ARITHMETIC SERIES AND CLUSTERS OF LARGE PRIMES.
72 13 4 22974 SPLITTING AND REDUCTION HEURISTICS IN AUTOMATIC THEOREM PROVING.
72 13 4 23020 ORDERING +-F(+-F(+-F(...+-F(X)...))) WHEN F(X) IS POSITIVE MONOTONIC.
72 13 5 23211 INTEGER ARITHMETIC ALGORITHMS FOR POLYNOMIAL REAL ZERO DETERMINATION.
72 13 9 23750 THE INHOMOGENEOUS MINIMA OF SOME TOTALLY REAL CUBIC FIELDS.
72 13 9 23751 COMPUTATIONS RELATING TO CUBIC FIELDS.
72 13 9 23752 THE PRODUCTS OF THREE AND OF FOUR LINEAR FORMS.
72 13 10 23881 SOME COMPUTATIONAL ASPECTS OF, AND THE USE OF COMPUTERS IN, ALGEBRAIC NUMBER THEORY.
72 13 12 24245 TOWARD A GENERAL THEORY OF SPECIAL FUNCTIONS.
72 13 12 24277 A COMPUTER PROGRAM FOR THE SYMBOLIC MANIPULATION OF POLYNOMIALS.

3.16 APPLICATIONS
NATURAL SCIENCES - METEOROLOGY

72 13 3 22733 DIGITAL SIMULATION OF THE GENERAL ATMOSPHERIC CIRCULATION USING A VERY DENSE GRID.
72 13 7 23427 MODEL FOR TIME-DEPENDENT RAINDROP SIZE DISTRIBUTIONS; APPLICATION TO THE WASHOUT OF AIRBORNE CONTAMINANTS.
72 13 9 23746 OVERLAP EMISSIVITY OF CO2 AND H2O IN THE 15-UM SPECTRAL REGION.
72 13 9 23753 AIR QUALITY DIFFUSION MODEL: APPLICATION TO NEW YORK CITY.
72 13 9 23754 NUMERICAL INVESTIGATION OF THE ATMOSPHERIC DISPERSION OF STACK EFFLUENTS.
72 13 12 24165 A COMPUTER SYSTEM FOR THE GENERATION OF THIESSEN POLYGON DESCRIPTIONS.

3.17 APPLICATIONS
NATURAL SCIENCES - PHYSICS, NUCLEAR SCIENCES

72 0 0 144 METHODS OF MODERN MATHEMATICAL PHYSICS, VOL. 1.
72 13 1 22458 AN ALGORITHM FOR COMPUTING SU(N) INVARIANTS.
72 13 2 22554 AUTOMATED ALGEBRAIC MANIPULATION IN CELESTIAL MECHANICS.
72 13 2 22570 GENERALIZED ALGORITHM FOR THE SIMULATION OF UNSTEADY FLUID FLOW IN MECHANICAL SYSTEMS.
72 13 3 22820 A NOTE ON QUADRILATERAL INTERPOLATION.
72 13 3 22833 THE NUMERICAL PERFORMANCE OF VARIATIONAL METHODS.
72 13 3 22880 THE APL TECHNICAL APPROACH TO REAL-TIME, INTERACTIVE, MULTIPLE-COMPUTER SIMULATION SYSTEMS.
72 13 4 22925 FORTRAN FOR ENGINEERING PHYSICS - MECHANICS, DATA ANALYSIS, AND HEAT.
72 13 5 23124 COMPUTATIONAL METHODS IN BAND THEORY.
72 13 6 23302 PICTORIAL PATTERN RECOGNITION AND THE PHASE PROBLEM OF X-RAY CRYSTALLOGRAPHY.
72 13 6 23376 NUMERICAL SOLUTION OF NONLINEAR BOUNDARY VALUE PROBLEMS USING REFLECTION.
72 13 6 23381 EXPERIMENTS WITH EQUATION SOLUTIONS BY FUNCTIONAL ANALYSIS ALGORITHMS AND FORMULA MANIPULATION.
72 13 7 23428 CALCULATION OF ATOMIC ENERGY LEVEL VALUES.
72 13 7 23429 NUMERICAL SIMULATION OF PLASMAS WITH PERIODIC SMOOTHING IN PHASE SPACE.
72 13 7 23532 NUMERICAL SOLUTIONS TO THE HELICON BOUNDARY VALUE PROBLEM.
72 13 8 23586 A PROGRAM FOR THE EXTRACTION OF BULK VISCOSITIES FROM SOUND ABSORPTION DATA.
72 13 12 24177 SOME CONSIDERATIONS IN USING THE COMPUTER IN THE DIAGNOSTIC X-RAY DEPARTMENT.
72 13 12 24272 ON THE NUMERICAL SOLUTION OF THE DIRICHLET PROBLEM FOR A REGION OF GENERAL SHAPE.

3.19 APPLICATIONS
NATURAL SCIENCES - MISCELLANEOUS

72 13 5 23169 EMBEDDING FIELDS: UNDERLYING PHILOSOPHY, MATHEMATICS, AND APPLICATIONS TO PSYCHOLOGY, PHYSIOLOGY, AND ANATOMY.
72 13 7 23424 RATIONALE, LIMITATIONS, AND ASSUMPTIONS OF A NORTHEASTERN FOREST GROWTH SIMULATOR.

CLASSIFICATION

72 13 7 23425 SUBSURFACE HYDROLOGY AT WASTE DISPOSAL SITES.
72 13 7 23430 NONSUPERVISED CROP CLASSIFICATION THROUGH AIRBORNE MULTISPECTRAL OBSERVATIONS.

3.20 APPLICATIONS
ENGINEERING - GENERAL

72 0 0 163 FORTRAN FOR ENGINEERING.
72 13 1 22390 A MACRO FACILITY FOR INTERACTIVE DISPLAY.
72 13 1 22393 FITTING EQUATIONS TO DATA.
72 13 1 22525 A NEW APPROACH TO THE 'HIDDEN LINE' PROBLEM.
72 13 2 22569 FUTURE GOALS OF ENGINEERING IN BIOLOGY AND MEDICINE.
72 13 3 22707 COMPUTERS & STRUCTURES.
72 13 3 22710 INTRODUCTION TO SCIENTIFIC COMPUTING.
72 13 4 22902 APPLICATION OF COMPUTERS TO ENGINEERING ANALYSIS.
72 13 4 22925 FORTRAN FOR ENGINEERING PHYSICS - MECHANICS, DATA ANALYSIS, AND HEAT.
72 13 4 22975 ON UTILIZATION OF STRUCTURAL INFORMATION TO IMPROVE IDENTIFICATION ACCURACY.
72 13 4 22976 AN INCONSISTENCY BETWEEN THE RATE AND THE ACCURACY OF THE LEARNING METHOD FOR SYSTEM IDENTIFICATION AND ITS TRACKING CHARACTERISTICS.
72 13 4 22989 TYMNET - A SERENDIPITOUS EVOLUTION.
72 13 5 23117 A MACHINE INDEPENDENT FORTRAN DATA MANAGEMENT SOFTWARE SYSTEM FOR SCIENTIFIC ENGINEERING APPLICATIONS.
72 13 5 23125 COMPUTER SIMULATION APPLICATIONS - DISCRETE-EVENT SIMULATION FOR SYNTHESIS AND ANALYSIS OF COMPLEX SYSTEMS.
72 13 6 23304 MAPLIB - A DATA BANK OF FORTRAN FUNCTIONS DESCRIBING MATERIAL PROPERTIES.
72 13 6 23356 A HYBRID CONTROLLER FOR PSUEDO-OPTIMAL FEEDBACK CONTROL OF NONLINEAR SYSTEMS.
72 13 6 23359 PL-1 PROGRAMMING FOR ENGINEERING AND SCIENCE.
72 13 6 23366 A PROCEDURE FOR IMPLEMENTING THE FAST FOURIER TRANSFORM ON SMALL COMPUTERS.
72 13 6 23380 SYSTEM ASPECTS OF LARGE-PROBLEM COMPUTATION AND DISPLAY.
72 13 6 23381 EXPERIMENTS WITH EQUATION SOLUTIONS BY FUNCTIONAL ANALYSIS ALGORITHMS AND FORMULA MANIPULATION.
72 13 9 23755 DATA BANKS IN THE PHYSICAL SCIENCES AND ENGINEERING.
72 13 10 23953 VIRTUAL MACHINE COMPUTING IN AN ENGINEERING ENVIRONMENT.
72 13 12 24151 FORTRAN FOR ENGINEERING.

3.21 APPLICATIONS
ENGINEERING - AERONAUTICAL, SPACE

72 13 3 22879 MINIMUM ALTITUDE VISIBILITY DIAGRAM - MAVD.
72 13 3 22882 IMPROVED FUNCTION GENERATION SUBPROGRAMS FOR USE WITH CSMP OR OTHER DIGITAL SIMULATION PROGRAMS.
72 13 4 22926 THE HANDLING QUALITIES SIMULATION PROGRAM FOR THE AUGMENTOR WING JET STOL RESEARCH AIRCRAFT.
72 13 4 22927 SOFTWARE VALIDATION OF THE TITAN IIIC DIGITAL FLIGHT CONTROL SYSTEM UTILIZING A HYBRID COMPUTER.
72 13 4 23048 MULTIVARIABLE FUNCTION GENERATION FOR SIMULATIONS.
72 13 4 23086 INTRODUCTION TO TRAINING SIMULATOR PROGRAMMING.
72 13 7 23431 DEVELOPING MEASURES TO REVEAL INDIVIDUAL STYLES IN THE USE OF AN ACCELERATION CONTROL.
72 13 7 23480 PROMINENCE PATTERNS IN AIR TRAFFIC CONTROL MESSAGES.
72 13 7 23509 A SOFTWARE ENGINEERING APPROACH TO THE SPACE INFORMATION SYSTEM OF THE FUTURE.
72 13 9 23825 A STUDY OF NUMERICAL METHODS FOR SOLVING VISCOUS AND INVISCID FLOW PROBLEMS.
72 13 9 23846 IDENTIFICATION OF DECOMPOSABLE TIME-VARYING PARAMETERS BY MEANS OF GRADIENT ALGORITHMS.
72 13 11 24106 MCROSS - A MULTI-COMPUTER PROGRAMMING SYSTEM.

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72 13 1 22391 STABILITY OF TUBULAR REACTORS.
72 13 4 22928 A STOCHASTIC SIMULATION MODEL OF A CHEMICAL PLANT.
72 13 9 23745 COMPUTER HANDLING OF CHEMICAL STRUCTURE INFORMATION.
72 13 9 23756 CHEMICAL PLANT SIMULATION: AN INTRODUCTION TO COMPUTER-AIDED STEADY-STATE PROCESS ANALYSIS.

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72 0 0 39 STRUCTURAL ANALYSIS.
72 0 0 101 CONTEMPORARY CONCRETE STRUCTURES.
72 13 1 22384 RAPP.
72 13 3 22764 INFORMATION SYSTEMS IN URBAN AND REGIONAL PLANNING.
72 13 3 22770 URBAN TRAFFIC SIMULATION.
72 13 4 22929 COMPUTER APPLICATIONS IN CIVIL ENGINEERING.
72 13 5 23156 REAL-TIME TRAFFIC FLOW OPTIMIZATION.
72 13 5 23183 THE INFORMATION ORGANIZER: A SYSTEM FOR SYMBOLIC DATA MANIPULATION.
72 13 6 23305 A DEMONSTRATION OF THE USE OF COMPUTER-AIDED LAND-USE MODELING FOR REGIONAL SERVICE SYSTEM DESIGN.
72 13 6 23306 DYNAMIC FINITE ELEMENT ANALYSIS OF ARBITRARY THIN SHELLS.
72 13 6 23307 SYSTEMS ANALYSIS FOR SUBWAY ENVIRONMENT.
72 13 6 23328 COMPUTER SIMULATION OF TRAFFIC VOLUME-SPEED DELAY MODEL.
72 13 7 23432 CPM IN CONSTRUCTION MANAGEMENT: PROJECT MANAGEMENT WITH CPM.
72 13 8 23587 SCIENTIFIC ALLOCATION OF WATER RESOURCES.
72 13 8 23588 PRELIMINARY REPORT ON A SYSTEM FOR GENERAL SPACE PLANNING.
72 13 11 24064 HEURISTIC ALGORITHMS FOR AUTOMATED SPACE PLANNING.
72 13 12 24166 ON THE SYNTHESIS OF FRAMES UNDER TEMPORAL LOADING BY THE USE OF DIGITAL COMPUTERS.
72 13 12 24294 COMPUTER AIDED GRAPHICS IN ARCHITECTURE AND PLANNING. (WORKSHOP)
72 13 12 24295 COMPUTER AIDED GRAPHICS IN ARCHITECTURE AND PLANNING.

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72 0 0 30 ELECTRONIC INTEGRATED SYSTEMS DESIGN.
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72 0 0 68 MICROWAVE TRANSMISSION-LINE IMPEDANCE DATA.
72 0 0 78 DESIGN OF SOLID-STATE POWER SUPPLIES.
72 0 0 122 ELECTROMAGNETIC FIELDS, ENERGY, AND WAVES.
72 0 0 123 AN INTRODUCTION TO SWITCHING SYSTEM DESIGN. TECHNIQUES.
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72 13 1 22522 SIMULATION OF THE SWITCHING BEHAVIOR OF P-N JUNCTION DIODES.
72 13 2 22570 GENERALIZED ALGORITHM FOR THE SIMULATION OF UNSTEADY FLUID FLOW IN MECHANICAL SYSTEMS.
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72 13 3 22734 AUTOMATIC PULSE PARAMETER DETERMINATION WITH THE COMPUTER AUGMENTED OSCILLOSCOPE SYSTEM.
72 13 4 22930 INTRODUCTION TO COMPUTER ANALYSIS: ECAP FOR ELECTRONICS TECHNICIANS AND ENGINEERS.
72 13 4 22931 A STUDY OF THE COMPUTER CONTROL OF ELEVATORS USING PHYSICAL MODELS.
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72 13 4 22933 DIGITAL COMPUTER SIMULATION OF THYRISTOR CHOPPERS AND INVERTERS.
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72 13 11 24010 SYSTEMS, NETWORKS, AND COMPUTATION: BASIC CONCEPTS.
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72 13 3 22736 DESIGN PROGRAM FOR RINGS OF NON-UNIFORM THICKNESS.
72 13 3 22737 COMPUTER ANALYSIS OF RIGID FRAMES.
72 13 3 22738 DESIGN OF OPTIMUM STRUCTURES.
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72 13 4 22935 INTERACTIVE LINKAGE SYNTHESIS ON A SMALL COMPUTER.
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72 13 4 22998 WEIGHTING FUNCTION ESTIMATION IN DISTRIBUTED-PARAMETER SYSTEMS.
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72 13 8 23574 ON PATTERNS, SYSTEMS AND CREATION.
72 13 8 23575 ENERGY, POWER AND INTUITIVE NOTIONS OF INFORMATION.
72 13 8 23576 PATTERNS, WAVEFORMS AND SCIENTIFIC MEASURE OF INFORMATION.
72 13 8 23668 RITZ APPROXIMATIONS TO TWO-DIMENSIONAL BOUNDARY VALUE PROBLEMS.
72 13 8 23719 VISCOELASTIC BEHAVIOR OF COMPUTER TAPE SUBJECTED TO PERIODIC MOTION.
72 13 9 23758 THERMOMECHANICS.
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72 13 1 22374 EASNAP - AN ON-LINE SYSTEM FOR ARTS STUDENTS.
72 13 1 22401 DETEXT - A PRE-ANALYSIS TEXT DECOMPOSITION SYSTEM.
72 13 1 22431 AN IMPLEMENTATION SYSTEM FOR DESIGNING COMPUTER-BASED EXPERIMENTS.
72 13 1 22510 TRACE-III: AN IMPLICIT PROGRAMMING SYSTEM FOR INDUCTIVE DATA ANALYSIS.
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72 13 2 22541 COMPUTERS AND URBAN PROBLEMS.
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72 13 2 22541 INTERNATIONAL IMPLICATIONS: NEED FOR WORLD SIMULATION.
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72 13 4 22938 GEOCODING TECHNIQUES DEVELOPED BY THE CENSUS USE STUDY.
72 13 5 23093 EDITORIAL.
72 13 5 23130 SIMULATING CONFLICTS OF INTEREST OVER THE LOCATION OF PUBLIC HOUSING WITH THE AID OF A COMPUTER-AIDED SPACE ALLOCATION TECHNIQUE.
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72 13 10 23919 INFORMATION AND ITS USERS.
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72 13 12 24167 SOCIAL SCIENCE COMPUTING - 1967-1972.
72 13 12 24168 FUTURE DEVELOPMENTS IN SOCIAL SCIENCE COMPUTING.
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72 13 12 24189 STATE OF EMERGENCY - A PROGRAMMED ENTERTAINMENT.

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72 13 2 22573 THE BRIEF DESCRIPTION OF THE COMET SYSTEM.
72 13 2 22611 THE NEW YORK STATE REGIONAL HOUSING MODEL.
72 13 4 22967 NATIONAL ECONOMIC MODELS HELP BUSINESS TO FOCUS ON THE FUTURE.
72 13 5 23165 AN ARTIFICIAL PLAYER FOR A BUSINESS MARKET GAME.
72 13 6 23312 COMPUTER SIMULATION OF A REGIONAL HOUSING SYSTEM.
72 13 6 23401 OPTIMAL PRODUCTION, INVESTMENT, AND OUTPUT PRICE CONTROLS FOR A MONOPOLY FIRM OF THE EVANS' TYPE.
72 13 12 24199 A GENERAL MANAGEMENT BUSINESS SIMULATION IN APL.

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72 0 0 164 SYSTEMS ENGINEERING APPLIED TO TRAINING.
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72 0 0 166 SYSTEMS ENGINEERING OF EDUCATION V: QUANTITATIVE CONCEPTS FOR AND ALTERNATIVES.
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72 13 2 22536 USING COMPUTERS IN HIGHER EDUCATION: PAST RECOMMENDATIONS, STATUS, AND NEEDS.
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72 13 2 22574 THE CAI AUTHOR-INSTRUCTOR.
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72 13 3 22741 LEARNING PROGRAMMING WITH THE HELP OF COMPUTERS. PART I.
72 13 3 22742 LEARNING PROGRAMMING WITH THE HELP OF COMPUTERS. PART II.
72 13 4 22939 COMPUTERS AND EDUCATION - AN INTERNATIONAL BIBLIOGRAPHY ON COMPUTERS AND EDUCATION.
72 13 4 22940 THE USE OF COMPUTERS IN MANAGEMENT EDUCATION.
72 13 4 22941 EXPERIMENTS WITH AN AUTOMATED INSTRUCTIONAL SYSTEM FOR NUMERICAL METHODS.
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72 13 8 23593 COMPUTER FREQUENCY CONTROL OF VOCABULARY IN LANGUAGE LEARNING READING MATERIALS.
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72 13 10 23885 TWENTY THINGS TO DO WITH A COMPUTER.
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72 13 12 24172 COMPUTER-AIDED SCHEMA FOR INSTRUCTIONAL GAMING.
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72 13 1 22410 LEAA: WHO GUARDS THE GUARDIANS?
72 13 1 22411 THE SEARCH FOR AUTOMATED JUSTICE.
72 13 1 22412 CAN THE COMPUTER SAVE OUR COURTS?
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72 13 5 23133 COMPUTERS AND THE LAW IN BRITAIN.
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72 13 8 23595 THE COMPUTER AND THE ADMINISTRATION OF JUSTICE.
72 13 8 23595 THE COMPUTER AS A THREAT TO INDIVIDUAL PRIVACY.
72 13 8 23595 THE LEGAL RAMIFICATIONS OF THE COMPUTER AGE.
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72 13 1 22419 AFTERMATH OF AN EVALUATION.
72 13 2 22569 FUTURE GOALS OF ENGINEERING IN BIOLOGY AND MEDICINE.
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72 13 2 22577 DEVELOPMENT OF HEALTH SYSTEMS - II.
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72 13 3 22744 A GENERALIZED MEDICAL INFORMATION SYSTEM (GEMISCH) FOR PRACTICING PHYSICIANS.
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72 13 4 22943 MEDICAL RECORD LINKAGE.
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72 13 4 22977 ADAPTIVE MODEL CONTROL APPLIED TO REAL-TIME BLOOD-PRESSURE REGULATION.
72 13 5 23135 COMPUTERS IN BIOMEDICINE - 1.
72 13 5 23142 MEANINGEX - A COMPUTER-BASED SEMANTIC PARSE APPROACH TO THE ANALYSIS OF MEANING.
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72 13 7 23441 NATURAL LANGUAGE COMMUNICATION FOR A COMPUTER-BASED MEDICAL RECORD.
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72 13 8 23597 A CLINICAL NEUROPHYSIOLOGICAL STUDY USING A REAL-TIME TIME-SHARED COMPUTER SYSTEM: MEASUREMENT OF CONDUCTION VELOCITIES OF SENSORY NERVES IN THE HUMAN USING REAL-TIME TIME-SHARING TECHNIQUES.
72 13 8 23598 ELECTRONIC INFORMATION PROGRAMS: A MULTIPLE-FACILITY SYSTEM.
72 13 8 23599 THE MEDICINE MACHINE VERSUS TODAY'S SUPER-SPECIALIST: A STUDY IN ANACHRONIZATION.
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72 13 8 23601 HUMAN AND COMPUTER ATTEMPTS TO DECODE SYMPTOM LANGUAGE.
72 13 8 23602 COMPUTER PREDICTION OF TREATMENT SUCCESS.
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72 13 9 23761 AN INFERENTIAL PROCESSOR FOR INTERACTING WITH BIOMEDICAL DATA USING RESTRICTED NATURAL LANGUAGE.
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72 13 9 23763 KEYS TO COMPUTERIZED IMAGE ANALYSIS.
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72 13 10 23889 COMPUTER-AIDED DRUG DOSAGE.
72 13 10 23890 AUTOMATED THERAPY FOR NONSPEAKING AUTISTIC CHILDREN.
72 13 10 23891 THE CLINICAL SIGNIFICANCE OF SIMULATION AND MODELLING IN LEUKEMIA CHEMOTHERAPY.
72 13 10 23892 A MODEL FOR POLLUTION - BEHAVIOR INTERACTIONS.
72 13 10 23893 INFORMATION MODEL OF A MEDICAL PROCESS.
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72 13 10 23920 FREE-TEXT ANALYSIS AND CODED INFORMATION.
72 13 11 24027 SIMULTANEOUS PERFORMANCE OF TWENTY-FIVE DIFFERENT TESTS PER MINUTE IN A CENTRALIZED CYBERNETIC CLINICAL LABORATORY.
72 13 12 24163 USE OF THE MATHEMATICAL 'SATELLITE MODEL' FOR DETERMINING THE FREQUENCY OF ASSOCIATIONS OF ACROCENTRIC CHROMOSOMES, DEPENDING ON HUMAN AGE.
72 13 12 24174 COMPUTERS IN MEDICINE (PROC. 2ND SYMPOSIUM HELD AT BLACKBURN COLLEGE OF TECHNOLOGY AND DESIGN).
72 13 12 24175 ELECTROCARDIOGRAPHIC POTENTIAL MAPPING BY COMPUTER.
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72 13 12 24178 COMPUTER APPLICATIONS IN CLINICAL BIOCHEMISTRY.
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72 13 12 24180 COMPUTERS IN THE ASSESSMENT OF MEDICAL STUDENTS.
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72 13 12 24182 AN APPROACH TO AUTOMATION OF MEDICAL INTERVIEWS.
72 13 12 24183 TOWARDS AUTOMATED MEDICAL DECISIONS.
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72 13 12 24297 ORGANIZATION OF INFORMATION INTO DISPLAYS.

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72 13 7 23493 THE GREAT GAS BUBBLE PRICK'T! OR, COMPUTERS REVEALED BY A GENTLEMEN OF QUALITY.
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72 13 1 22426 MANAGEMENT GUIDE TO NC.
72 13 2 22533 PROSIM V ADMINISTRATOR'S MANUAL: PRODUCTION SYSTEM SIMULATOR.
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72 13 5 23166 UNIVERSAL GOAL-SEEKERS.
72 13 5 23167 STRIPS: A NEW APPROACH TO THE APPLICATION OF THEOREM-PROVING TO PROBLEM SOLVING.
72 13 5 23247 AN ADMISSIBLE AND OPTIMAL ALGORITHM FOR SEARCHING AND-OR GRAPHS.
72 13 6 23310 THE TEACHING COMPUTER AS A GAMING LABORATORY.
72 13 6 23336 GAMES OF STATUS.
72 13 7 23449 SIMSOC: ESTABLISHING SOCIAL ORDER IN A SIMULATED SOCIETY.
72 13 7 23483 AUTOMATIC THEOREM PROVING WITH BUILT-IN THEORIES INCLUDING EQUALITY, PARTIAL ORDERING, AND SETS.
72 13 7 23484 AN IMPLEMENTED GRAPH ALGORITHM FOR WINNING SHANNON SWITCHING GAMES.
72 13 7 23485 A TWO-PERSON BIDDING GAME WITH NON-RETURNABLE OPEN AND SEALED BIDS.
72 13 7 23487 ATTITUDE AND PERSONALITY EFFECTS OF A THREE-DAY SIMULATION.
72 13 8 23588 PRELIMINARY REPORT ON A SYSTEM FOR GENERAL SPACE PLANNING.
72 13 8 23626 ARTIFICIAL INTELLIGENCE AND GAME-PLAYING MACHINES.
72 13 8 23628 PROTOCOL ANALYSIS AS A TASK FOR ARTIFICIAL INTELLIGENCE.
72 13 8 23686 TOWARDS AUTOMATIC PROGRAM SYNTHESIS.
72 13 9 23763 KEYS TO COMPUTERIZED IMAGE ANALYSIS.
72 13 10 23906 AN INFORMATION PROCESSING APPROACH TO THEORY FORMATION IN BIOMEDICAL RESEARCH.
72 13 10 23912 INTERACTIVE COMPUTER-BASED GAME FOR DECISION-MAKING IN ECOLOGY.
72 13 11 24028 THE LEARNING OF STRATEGIES IN A SIMPLE, TWO-PERSON ZERO-SUM GAME WITHOUT SADDLEPOINT.

3.64 APPLICATIONS - ARTIFICIAL INTELLIGENCE

CLASSIFICATION

72 13 11 24047 UNDERSTANDING NATURAL LANGUAGE.
72 13 11 24064 HEURISTIC ALGORITHMS FOR AUTOMATED SPACE PLANNING.
72 13 11 24065 THE USE OF VISION AND MANIPULATION TO SOLVE THE 'INSTANT INSANITY' PUZZLE.
72 13 11 24066 TRAINING FOR EXTREMUM DETERMINATION OF FUNCTION OF VARIABLES MEASURED IN NAMES SCALE.
72 13 11 24067 EXPERIMENTS WITH A NATURAL LANGUAGE PROBLEM-SOLVING SYSTEM.
72 13 11 24068 A LANGUAGE BASED PROBLEM-SOLVER.
72 13 11 24069 BRANCH-AND-BOUND AND BEYOND.
72 13 11 24072 AN INTELLIGENT ROBOT WITH COGNITION AND DECISION-MAKING ABILITY.
72 13 12 24156 THE BOMB AND THE COMPUTER: A CRUCIAL HISTORY OF WAR GAMES.
72 13 12 24186 SOME RELATIONS BETWEEN PREDICATE CALCULUS AND SEMANTIC NET REPRESENTATIONS OF DISCOURSE.
72 13 12 24202 SOLVING PROBLEMS BY FORMULA MANIPULATION IN LOGIC AND LINEAR INEQUALITIES.
72 13 12 24278 COMPUTER PROOFS OF LIMIT THEOREMS.

3.65 APPLICATIONS
ARTIFICIAL INTELLIGENCE - SIMULATION OF NATURAL SYSTEMS

72 13 1 22414 ON AN APPROACH TO VOICE RECOGNITION.
72 13 1 22524 SIMULATION OF SEA SHELL PIGMENT PATTERNS USING AN INTERACTIVE GRAPHICS SYSTEM.
72 13 2 22560 RANDOM-WALK MODEL OF STREAM NETWORK DEVELOPMENT.
72 13 2 22571 ON THE USE OF COMPUTER SIMULATION FOR RESEARCH.
72 13 2 22619 CHARACTER RECOGNITION AND VISUAL PROCESSING.
72 13 3 22725 NUMERICAL SIMULATION OF SUBSURFACE ENVIRONMENT.
72 13 3 22733 DIGITAL SIMULATION OF THE GENERAL ATMOSPHERIC CIRCULATION USING A VERY DENSE GRID.
72 13 3 22773 LEARNING PROCESS IN A MODEL OF ASSOCIATIVE MEMORY.
72 13 3 22778 COMPUTER ANALYSIS OF VISUAL PROPERTIES OF CURVED OBJECTS.
72 13 3 22784 RECOGNITION SYSTEM FOR HANDWRITTEN LETTERS SIMULATING VISUAL NERVOUS SYSTEM.
72 13 3 22785 ARTIFICIAL PARANOIA.
72 13 4 22997 ADAPTIVE MEMORY TRACKERS.
72 13 4 23077 CONTROLLING A REAL-TIME PARALLEL PROCESSING COMPUTER.
72 13 5 23119 DYNAMICS OF MICROBIAL POPULATIONS.
72 13 5 23120 OF SOWBUGS AND SYSTEMS: THE ECOLOGICAL BIOENERGETICS OF A TERRESTRIAL ISOPOD.
72 13 5 23121 COMPUTER ANALYSIS OF PREDATION ENERGETICS IN THE LARGE-MOUTH BASS.
72 13 5 23123 SYSTEMS ANALYSIS AND SIMULATION IN ECOLOGY.
72 13 5 23167 STRIPS: A NEW APPROACH TO THE APPLICATION OF THEOREM-PROVING TO PROBLEM SOLVING.
72 13 5 23168 A RATIONALE FOR MODELING DYNAMIC ECOLOGICAL SYSTEMS.
72 13 6 23399 SIMULATION EVENT SCHEDULING.
72 13 6 23400 SYNTHESIS OF MULTIVARIATE GAUSSIAN RANDOM PROCESSES WITH A PREASSIGNED COVARIANCE.
72 13 7 23486 COMPUTER SIMULATION OF A SELF-PRESERVING AND LEARNING ORGANISM.
72 13 7 23487 ATTITUDE AND PERSONALITY EFFECTS OF A THREE-DAY SIMULATION.
72 13 7 23488 EXPERIMENTS WITH A HEURISTIC THEOREM-PROVING PROGRAM FOR PREDICATE CALCULUS WITH EQUALITY.
72 13 8 23596 HEURISTIC AND LEARNING PROGRAM APPLICATIONS TO THE DIFFERENTIAL DIAGNOSIS OF NEONATAL HEPATITIS AND EXTRAHEPATIC BILIARY ATRESIA.
72 13 8 23609 SIMULATION OF NEURAL SETS.
72 13 8 23627 FUTURE FOR INTEGRATED COGNITIVE SYSTEMS.
72 13 8 23628 PROTOCOL ANALYSIS AS A TASK FOR ARTIFICIAL INTELLIGENCE.
72 13 8 23629 WIRING TELEPHONE APPARATUS FROM COMPUTER-GENERATED SPEECH.
72 13 9 23768 THE CONSTRUCTION OF A DESCRIPTIVE DIAGNOSTIC SYSTEM IN PSYCHIATRY: FIRST EXPERIENCES WITH A COMPUTER SIMULATION.
72 13 9 23785 A COMPUTER MODEL OF SIMPLE FORMS OF LEARNING IN INFANTS.
72 13 10 23906 AN INFORMATION PROCESSING APPROACH TO THEORY FORMATION IN BIOMEDICAL RESEARCH.
72 13 10 23913 ON THE ROLE OF EXACT AND NONEXACT ASSOCIATIVE MEMORIES IN HUMAN AND MACHINE INFORMATION PROCESSING.
72 13 10 23914 HOW A BUG'S MIND WORKS.
72 13 10 23915 A MODEL OF THE BRAIN'S HIPPOCAMPAL COMPUTER.
72 13 10 23916 NEUROMIME NETS AS THE BASIS FOR THE PREDICTIVE COMPONENT OF ROBOT BRAINS.
72 13 10 23917 SYSTEMS APPROACH IN ECOLOGICAL SYSTEM SIMULATION.
72 13 11 24048 LEARNING STRATEGIES, MEMORIES, AND INDIVIDUALS.
72 13 11 24058 PATTERN RECOGNITION BY AN ARTIFICIAL TACTILE SENSE.
72 13 11 24068 A LANGUAGE BASED PROBLEM-SOLVER.
72 13 11 24070 THE MODEL OF HUMAN VISUAL LONG-TERM MEMORY WITH ABILITY FOR
72 13 11 24070 THE MODEL OF HUMAN SHORT-TERM MEMORY. GENERALIZATION.
72 13 11 24071 ROBOT PLANNING, EXECUTION, AND MONITORING IN AN UNCERTAIN ENVIRONMENT.
72 13 11 24072 AN INTELLIGENT ROBOT WITH COGNITION AND DECISION-MAKING ABILITY.
72 13 11 24073 TRAJECTORY CONTROL OF A COMPUTER ARM.
72 13 11 24074 AUGMENTED TRANSITION NETWORKS AS PSYCHOLOGICAL MODELS OF SENTENCE COMPREHENSION.
72 13 11 24075 FIRST STEPS TOWARD A MODEL OF THE VERTEBRATE CENTRAL NERVOUS SYSTEMS.
72 13 11 24124 TOWARD AN AUTOMATA THEORY OF BRAINS.
72 13 12 24199 A GENERAL MANAGEMENT BUSINESS SIMULATION IN APL.
72 13 12 24203 THE USE OF COMPUTERS FOR MAN-MACHINE MODELING: STATUS AND PLANS.
72 13 12 24204 THE APPLICATION OF COMPUTERS TO MODEL PHYSIOLOGICAL EFFORT IN SCORING TABLES FOR TRACK AND FIELD.
72 13 12 24205 TRANSFORMATIONS AND SOMATOTOPY IN PERCEIVING SYSTEMS.
72 13 12 24206 THE EVOLUTIONARY PROCESS OF RANDOMLY GROWING MUTATED DIGITAL STRUCTURES AS A MODEL OF EVOLUTION OF THE FIRST LIVING ORGANISMS.

3.66 APPLICATIONS
ARTIFICIAL INTELLIGENCE - THEORY OF HEURISTIC METHODS

72 13 3 22786 HEURISTICS AND LEARNING CONTROL (INTRODUCTION TO INTELLIGENT CONTROL).
72 13 4 22974 SPLITTING AND REDUCTION HEURISTICS IN AUTOMATIC THEOREM PROVING.
72 13 6 23317 MUSIC AND COMPUTER COMPOSITION.
72 13 7 23550 A GRAMMAR FOR MAPS.
72 13 8 23588 PRELIMINARY REPORT ON A SYSTEM FOR GENERAL SPACE PLANNING.
72 13 8 23630 HEURISTIC SEARCH VS. EXHAUSTIVE SEARCH.
72 13 8 23693 AN EFFICIENT PROGRAM FOR REAL-TIME ASSIGNMENT OF JOBS IN A HYBRID COMPUTER NETWORK.
72 13 11 24069 BRANCH-AND-BOUND AND BEYOND.

3.69 APPLICATIONS
ARTIFICIAL INTELLIGENCE - MISCELLANEOUS

72 0 0 94 SOVIET CYBERNETICS RESEARCH: A PRELIMINARY STUDY OF
72 0 0 153 ENGINEERING AND LIVING SYSTEMS: INTERFACES AND OPPORTUNITIES. ORGANIZATIONS AND PERSONALITIES.
72 13 2 22596 RECENT DEVELOPMENTS IN COMPUTER-ASSISTED MUSICAL SCHOLARSHIP.
72 13 3 22783 A MAN-MACHINE SYNERGISTIC APPROACH TO PLANNING AND CREATIVE PROBLEM SOLVING: PART II.
72 13 5 23142 MEANINGEX - A COMPUTER-BASED SEMANTIC PARSE APPROACH TO THE ANALYSIS OF MEANING.
72 13 5 23169 EMBEDDING FIELDS: UNDERLYING PHILOSOPHY, MATHEMATICS, AND APPLICATIONS TO PSYCHOLOGY, PHISIOLOGY, AND ANATOMY.
72 13 6 23315 MUSE: A MODEL TO UNDERSTAND SIMPLE ENGLISH.
72 13 6 23337 INTERACTIONS BETWEEN PHILOSOPHY AND ARTIFICIAL INTELLIGENCE: THE ROLE OF INTUITION AND NONLOGICAL REASONING IN INTELLIGENCE.
72 13 8 23602 COMPUTER PREDICTION OF TREATMENT SUCCESS.
72 13 9 23857 TIME FLOW MECHANISMS FOR DISCRETE EVENT SIMULATION MODELS.
72 13 10 23918 ROBOTS IN THE HOME AND INDUSTRY.
72 13 10 23921 A DATA STRUCTURE FOR COGNITIVE INFORMATION RETRIEVAL.
72 13 10 23925 MAN-MACHINE SYSTEM EXPERIMENTS.
72 13 10 23934 A LABORATORY FOR THE STUDY OF AUTOMATING PROGRAMMING.
72 13 11 24045 SETTING GOALS IN CYBERNETIC SYSTEMS.
72 13 12 24207 ON THE PROBLEMS OF TIME, RETRIEVAL OF TEMPORAL RELATIONS, CAUSALITY, AND CO-EXISTENCE.

3.70 APPLICATIONS
INFORMATION RETRIEVAL - GENERAL

72 0 0 41 THE COMPUTER AND THE LIBRARY.
72 0 0 136 INTRODUCTION TO PROGRAMMING FOR LIBRARY AND INFORMATION SCIENCE.
72 13 1 22395 COMPUTER-ASSISTED PLANNING OF CURRICULUM AND INSTRUCTION.
72 13 1 22397 A MULTIMEDIA APPROACH TO LEARNING DIAGNOSTIC SKILLS.
72 13 1 22406 FEATURE ANALYSIS OF GENERALIZED DATA BASE MANAGEMENT SYSTEMS.
72 13 1 22408 FEATURE ANALYSIS OF GENERALIZED DATA BASE MANAGEMENT SYSTEMS.
72 13 1 22417 INFORMATION ANALYSIS AND RETRIEVAL.
72 13 1 22418 STRUCTURE AND FUNCTION IN RETRIEVAL LANGUAGES.
72 13 2 22578 COMPUTERS IN MEDICINE - PROBLEMS AND PERSPECTIVES.
72 13 2 22578 THE ROLE OF COMPUTERS AND INFORMATION SYSTEMS IN MEDICINE.
72 13 2 22578 NEW TECHNOLOGIES IN MEDICINE.
72 13 2 22578 MEDICAL INFORMATION SYSTEMS: A REFORMULATION OF THE PROBLEMS (PANEL SESSION) AS PERCEIVED BY A HOSPITAL ADMINISTRATOR.
72 13 2 22597 MANAGEMENT INFORMATION SYSTEMS: PROGRESS AND PERSPECTIVES.
72 13 2 22602 SOFTWARE DESIGN FOR THE COMMUNITY INFORMATION UTILITY.
72 13 2 22602 PLANNING COMMUNITY INFORMATION UTILITIES. (PANEL SESSION)
72 13 2 22602 CONFERENCE RESULTS.
72 13 2 22602 INFORMATION SERVICES.
72 13 2 22602 PLANNING COMMUNITY INFORMATION UTILITIES.
72 13 2 22602 MANAGEMENT PROSPECTS AND PROBLEMS.
72 13 2 22616 EXTRACTING INFORMATION FROM RESOLUTION PROOF TREES.
72 13 2 22622 CAN PRESENT METHODS FOR LIBRARY AND INFORMATION RETRIEVAL SERVICE SURVIVE? (PANEL)
72 13 2 22623 INSURING CONFIDENTIALITY OF INDIVIDUAL RECORDS IN DATA STORAGE AND RETRIEVAL FOR STATISTICAL PURPOSES.
72 13 2 22624 ON-LINE SYSTEMS: PROMISE AND PITFALLS.
72 13 2 22649 CANONICAL STRUCTURE IN ATTRIBUTE BASED FILE ORGANIZATION.
72 13 3 22743 COMPUTING AT THE INFORMATION SCIENCES DIVISION, ROCKLAND STATE HOSPITAL.
72 13 3 22744 A GENERALIZED MEDICAL INFORMATION SYSTEM (GEMISCH) FOR PRACTICING PHYSICIANS.
72 13 4 22949 RECOGNITION OF PHRASES AND IDIOMS FOR MACHINE TRANSLATION.
72 13 4 22980 AUTOMATIC KEYWORD CLASSIFICATION FOR INFORMATION RETRIEVAL.
72 13 4 22981 DE LUDI NATURA LIBER SECUNDUS.
72 13 5 23155 THE CZECHOSLOVAK COMPUTER INFORMATION SYSTEM ASTI.
72 13 5 23170 THE SMART RETRIEVAL SYSTEM - EXPERIMENTS IN AUTOMATIC DOCUMENT PROCESSING.
72 13 5 23171 THE SMART PROJECT-STATUS REPORT AND PLANS.
72 13 5 23172 OPINION PAPER: IMPROVING A FIELD-BASED 'ERIC-LIKE' INFORMATION SYSTEM.
72 13 5 23173 SOME WAYS OF MEASURING INFORMATION.
72 13 5 23174 SOME LEVELS OF INTERACTION IN INFORMATION SCIENCE.
72 13 5 23175 A SINGLE COMPUTER-BASED SYSTEM FOR BOTH CURRENT AWARENESS AND RETROSPECTIVE SEARCH: OPERATING EXPERIENCE WITH ASSASSIN.
72 13 6 23304 MAPLIB - A DATA BANK OF FORTRAN FUNCTIONS DESCRIBING MATERIAL PROPERTIES.
72 13 6 23316 A COMPUTER-BASED CENSUS AND LOCAL HANDLIST SYSTEM FOR INCUNABULA.
72 13 6 23338 PROGRAM DESIGN FOR RETROSPECTIVE SEARCHES ON LARGE DATA BASES.
72 13 6 23345 THE EXTENSION OF USERS' LITERATURE AWARENESS AS A MEASURE OF RETRIEVAL PERFROMANCE, AND ITS APPLICATION TO MEDLARS.
72 13 7 23489 HANDBOOK OF DATA PROCESSING FOR LIBRARIES.
72 13 7 23490 SUMMARY DISCUSSION.
72 13 7 23491 THE AUTOMATED LIBRARY: A FEW PROBLEMS.
72 13 7 23492 ISL - A NEW PROGRAMMING LANGUAGE FOR INFORMATION RETRIEVAL.
72 13 7 23493 THE GREAT GAS BUBBLE PRICK'T; OR, COMPUTERS REVEALED BY A GENTLEMEN OF QUALITY.
72 13 7 23494 COMPUTERIZED INFORMATION SERVICES FOR THE UNIVERSITY COMMUNITY.
72 13 7 23495 AN ERROR ANALYSIS FOR FUNCTIONS OF QUALITATIVE ATTRIBUTES WITH APPLICATION TO INFORMATION RETRIEVAL.
72 13 7 23517 GIRL-GRAPH INFORMATION RETRIEVAL LANGUAGE - DESIGN OF SYNTAX.
72 13 8 23631 AUTOMATIC TEXT PROCESSING BY METHODS OF APPLIED LINGUISTICS.
72 13 8 23632 LANGUAGE RELATIONS IN A GENERALIZED INFORMATION STORAGE AND RETRIEVAL SYSTEM.
72 13 8 23633 THE 'GENERALITY' EFFECT AND THE RETRIEVAL EVALUATION FOR LARGE COLLECTIONS.
72 13 8 23634 INFORMATION SCIENCE: IN THE STRUCTURE OF ITS PROBLEMS.
72 13 9 23759 ACADEMIC DATA BANKS.
72 13 9 23770 RATS: A MIDDLE-LEVEL TEXT UTILITY SYSTEM.
72 13 9 23786 A STATISTICAL INTERPRETATION OF TERM SPECIFICITY AND ITS APPLICATION IN RETRIEVAL.
72 13 10 23919 INFORMATION AND ITS USERS.
72 13 10 23920 FREE-TEXT ANALYSIS AND CODED INFORMATION.
72 13 10 23920 FREE-TEXT AND CODED INFORMATION.
72 13 11 24113 INFORMATION NEEDS IN THE MATHEMATICAL SCIENCES.
72 13 12 24208 ACRONYM COMPILATION BY COMPUTER (ACRODABA - ACRONYM DATA BASE).

3.71 APPLICATIONS
INFORMATION RETRIEVAL - CONTENT ANALYSIS

72 13 2 22625 RELATIONAL DATA FILE: EXPERIENCE WITH A SYSTEM FOR PROPOSITIONAL DATA STORAGE AND INFERENCE EXECUTION.
72 13 3 22752 ON THE UTILIZATION OF LINGUISTIC INFORMATION IN THE AUTOMATIC RECOGNITION OF PHRASES.
72 13 3 22753 HUMANITIES BY COMPUTER (STATEMENT OF THE PROBLEM).

13 3 22787 EXPLORATION OF SOME PROBLEMS OF MATHEMATICAL DESCRIPTION AND OPTIMIZATION OF A BRANCHING SYSTEM FOR CATALOG - REFERENCE INFORMATION.
13 4 22980 AUTOMATIC KEYWORD CLASSIFICATION FOR INFORMATION RETRIEVAL.
13 5 23142 MEANINGEX - A COMPUTER-BASED SEMANTIC PARSE APPROACH TO THE ANALYSIS OF MEANING.
13 5 23143 FORMAL METHODS IN THE DESIGN OF QUESTION-ANSWERING SYSTEMS.
13 5 23175 A SINGLE COMPUTER-BASED SYSTEM FOR BOTH CURRENT AWARENESS AND RETROSPECTIVE SEARCH: OPERATING EXPERIENCE WITH ASSASSIN.
13 5 23176 RELEVANCE FEEDBACK IN INFORMATION RETRIEVAL.
13 5 23177 DOCUMENT VECTOR MODIFICATION.
13 5 23178 RELEVANCE ASSESSMENTS AND RETRIEVAL SYSTEM EVALUATION.
13 5 23179 COMPUTER-ASSISTED INDEXING.
13 6 23339 AUTOMATIC PROCESSING OF FOREIGN LANGUAGE DOCUMENTS.
13 6 23340 THE CONCEPT OF COMPATIBILITY OF AUTOMATIC INFORMATION RETRIEVAL SYSTEMS.
13 6 23341 THE USE OF EXTRACTS IN INFORMATION SERVICES.
13 7 23450 INTERMEDIATE LANGUAGES FOR AUTOMATIC LANGUAGE PROCESSING.
13 7 23495 AN ERROR ANALYSIS FOR FUNCTIONS OF QUALITATIVE ATTRIBUTES WITH APPLICATION TO INFORMATION RETRIEVAL.
13 7 23497 A PROBABILISTIC SEARCH STRATEGY FOR MEDLARS.
13 7 23501 COLUMBIA UNIVERSITY SCHOOL OF LIBRARY SERVICE SYSTEM FOR THESAURUS DEVELOPMENT AND MAINTENANCE.
13 8 23633 THE 'GENERALITY' EFFECT AND THE RETRIEVAL EVALUATION FOR LARGE COLLECTIONS.
13 8 23635 A CLUSTERING ALGORITHM FOR LARGE AND DYNAMIC DOCUMENT COLLECTIONS.
13 8 23636 MATHEMATICAL METHODS FOR ANALYSIS OF SOME COMPLEX TEXTS IN PATENT MANAGEMENT.
13 9 23786 A STATISTICAL INTERPRETATION OF TERM SPECIFICITY AND ITS APPLICATION IN RETRIEVAL.
13 9 23787 INFORMATION ANALYSIS AND DICTIONARY CONSTRUCTION.
13 9 23788 INDEXING THE LOUVAIN PHILOSOPHICAL REVIEW.
13 9 23789 SOME PROBLEMS OF THE INDEXING OF SPECIALIST MATERIAL DRAWN FROM SEVERAL DISCIPLINARY SYSTEMS.
13 9 23790 WHO CITED WHAT? A CITATION ANALYSIS OF THE FOUR BASIC CATALOGING TEXTS.
13 9 23791 AN EXPERIMENT IN INDEX TERM FREQUENCY.
13 10 23886 AN INTEGRATED CLINICAL INFORMATION SYSTEM INVOLVING BOOKING, SCHEDULING, DATA COLLECTION, FILING, DELIVERING, AND BILLING.
13 10 23911 COMPUTER-ASSIGNED CODES FROM VERBAL RESPONSES.
13 10 23920 FREE-TEXT AND CODED INFORMATION.
13 10 23920 FREE-TEXT ANALYSIS AND CODED INFORMATION.
13 10 23921 A DATA STRUCTURE FOR COGNITIVE INFORMATION RETRIEVAL.
13 12 24210 DESIGN CONSIDERATIONS FOR A BOOLEAN SEARCH SYSTEM WITH AUTOMATIC RELEVANCE FEEDBACK PROCESSING.

3.72 APPLICATIONS
INFORMATION RETRIEVAL - EVALUATION OF SYSTEMS

72 13 1 22418 STRUCTURE AND FUNCTION IN RETRIEVAL LANGUAGES.
72 13 1 22419 AFTERMATH OF AN EVALUATION.
72 13 4 22980 AUTOMATIC KEYWORD CLASSIFICATION FOR INFORMATION RETRIEVAL.
72 13 4 22982 THE COST-EFFECTIVENESS ANALYSIS OF INFORMATION RETRIEVAL AND DISSEMINATION SYSTEMS.
72 13 4 22983 FREE TEXT WORD RETRIEVAL AND SCIENTIST INDEXING: PERFORMANCE PROFILES AND COSTS.
72 13 4 22984 INTERFACE DESIGN FOR AN INTERACTIVE INFORMATION RETRIEVAL SYSTEM: A LITERATURE SURVEY AND A RESEARCH SYSTEM DESCRIPTION.
72 13 5 23178 RELEVANCE ASSESSMENTS AND RETRIEVAL SYSTEM EVALUATION.
72 13 5 23180 AN EVALUATION OF ROCCHIO'S CLUSTERING ALGORITHM.
72 13 5 23181 A TECHNIQUE FOR THE EVALUATION OF A COMMERCIAL INFORMATION SERVICE AND SOME PRELIMINARY RESULTS FROM THE DRUGDOC SERVICE OF THE EXCERPTS MEDICA FOUNDATION.
72 13 5 23182 EFFECTIVENESS OF RETRIEVAL KEY ABBREVIATION SCHEMES.
72 13 5 23184 EXPERIMENTS WITH A FAST ALGORITHM FOR AUTOMATIC CLASSIFICATION.
72 13 6 23342 PERFORMANCE INDICES FOR DOCUMENT RETRIEVAL SYSTEMS.
72 13 6 23343 EVALUATION VIEWPOINTS IN DOCUMENT RETRIEVAL.
72 13 6 23344 EVALUATION OF FEEDBACK RETRIEVAL USING MODIFIED FREEZING, RESIDUAL COLLECTION, AND TEST AND CONTROL GROUPS.
72 13 6 23345 THE EXTENSION OF USERS' LITERATURE AWARENESS AS A MEASURE OF RETRIEVAL PERFROMANCE, AND ITS APPLICATION TO MEDLARS.
72 13 7 23441 NATURAL LANGUAGE COMMUNICATION FOR A COMPUTER-BASED MEDICAL RECORD.
72 13 7 23493 THE GREAT GAS BUBBLE PRICK'T; OR, COMPUTERS REVEALED BY A GENTLEMEN OF QUALITY.
72 13 7 23496 HUMAN FACTORS IN THE DESIGN OF AN INTERACTIVE LIBRARY SYSTEM.
72 13 7 23497 A PROBABILISTIC SEARCH STRATEGY FOR MEDLARS.
72 13 7 23498 A COMMENT ON THE DOUBLE-CHAINED TREE.
72 13 7 23501 COLUMBIA UNIVERSITY SCHOOL OF LIBRARY SERVICE SYSTEM FOR THESAURUS DEVELOPMENT AND MAINTENANCE.
72 13 8 23637 COMPUTER EVALUATION OF INDEXING AND TEXT PROCESSING.
72 13 8 23638 COMPARATIVE EFFICIENCY OF SEARCHING TITLES, ABSTRACTS, AND INDEX TERMS IN A FREE-TEXT DATA BASE.
72 13 8 23639 TOWARD AUTOMATIC PROFILE CONSTRUCTION.
72 13 8 23640 EXPERIENCES OF IIT RESEARCH INSTITUTE IN OPERATING A COMPUTERIZED RETRIEVAL SYSTEM FOR SEARCHING A VARIETY OF DATA BASES.
72 13 9 23792 A COMPARISON BETWEEN MANUAL AND AUTOMATIC INDEXING METHODS.
72 13 9 23793 POSSIBILITIES OF GEOGRAPHICAL DATA ACQUISITION FOR INFORMATION SYSTEMS.
72 13 10 23922 INFORMATION RETRIEVAL.
72 13 12 24211 PRACTICAL ASPECTS OF DOUBLY CHAINED TREES FOR RETRIEVAL.

3.73 APPLICATIONS
INFORMATION RETRIEVAL - FILE MAINTENANCE

72 13 1 22401 DETEXT - A PRE-ANALYSIS TEXT DECOMPOSITION SYSTEM.
72 13 1 22420 ON FILE STRUCTURING FOR NON-UNIFORM ACCESS FREQUENCIES.
72 13 2 22626 DESIGN AND IMPLEMENTATION OF A REAL-TIME INFORMATION STORAGE AND RETRIEVAL SYSTEM.
72 13 2 22653 SOME PROPERTIES OF THE SCATTER STORAGE TECHNIQUE WITH LINEAR PROBING.
72 13 5 23183 THE INFORMATION ORGANIZER: A SYSTEM FOR SYMBOLIC DATA MANIPULATION.
72 13 6 23314 STRUCTURE AND CONTENT OF A MUSEUM DATA BANK.
72 13 6 23346 CLUSTER SEARCH STRATEGIES AND THE OPTIMIZATION OF RETRIEVAL EFFECTIVENESS.
72 13 7 23520 THE EVOLUTION OF AN OPERATING SYSTEM.
72 13 8 23641 FILE ORDERING AND RETRIEVAL COST.
72 13 12 24209 AN IMAGE MATRIX FOR ACCESSING FILES.
72 13 12 24211 PRACTICAL ASPECTS OF DOUBLY CHAINED TREES FOR RETRIEVAL.

3.74 APPLICATIONS
INFORMATION RETRIEVAL - SEARCHING

72 13 2 22625 RELATIONAL DATA FILE: EXPERIENCE WITH A SYSTEM FOR PROPOSITIONAL DATA STORAGE AND INFERENCE EXECUTION.
72 13 2 22627 CHAIRMAN'S NOTE.
72 13 2 22627 THE USER INTERFACE FOR INTERACTIVE SEARCH. (PANEL SESSION)
72 13 4 22983 FREE TEXT WORD RETRIEVAL AND SCIENTIST INDEXING: PERFORMANCE PROFILES AND COSTS.
72 13 4 22984 INTERFACE DESIGN FOR AN INTERACTIVE INFORMATION RETRIEVAL SYSTEM: A LITERATURE SURVEY AND A RESEARCH SYSTEM DESCRIPTION.
72 13 5 23132 COMPUTERS AND LEGAL RESEARCH.
72 13 5 23133 COMPUTERS AND THE LAW IN BRITAIN.
72 13 5 23134 INFORMATION RETRIEVAL IN LAW.
72 13 5 23176 RELEVANCE FEEDBACK IN INFORMATION RETRIEVAL.
72 13 5 23177 DOCUMENT VECTOR MODIFICATION.
72 13 5 23182 EFFECTIVENESS OF RETRIEVAL KEY ABBREVIATION SCHEMES.
72 13 5 23184 EXPERIMENTS WITH A FAST ALGORITHM FOR AUTOMATIC CLASSIFICATION.
72 13 6 23329 IMPLEMENTATION OF AN EDITING ALGORITHM ALLOWING REPEATING CORRECTIONS.
72 13 6 23338 PROGRAM DESIGN FOR RETROSPECTIVE SEARCHES ON LARGE DATA BASES.
72 13 6 23340 THE CONCEPT OF COMPATIBILITY OF AUTOMATIC INFORMATION RETRIEVAL SYSTEMS.
72 13 6 23342 PERFORMANCE INDICES FOR DOCUMENT RETRIEVAL SYSTEMS.
72 13 6 23343 EVALUATION VIEWPOINTS IN DOCUMENT RETRIEVAL.
72 13 6 23346 CLUSTER SEARCH STRATEGIES AND THE OPTIMIZATION OF RETRIEVAL EFFECTIVENESS.
72 13 6 23347 QUERY CLUSTERING IN A LARGE DOCUMENT SPACE.
72 13 6 23348 INTERACTIVE SEARCH STRATEGIES AND DYNAMIC FILE ORGANIZATION IN INFORMATION RETRIEVAL.
72 13 6 23349 INTERACTIVE REFERENCE RETRIEVAL IN LARGE FILES.
72 13 7 23481 MAN-MACHINE INTERACTION IN HUMAN-FACE IDENTIFICATION.
72 13 7 23496 HUMAN FACTORS IN THE DESIGN OF AN INTERACTIVE LIBRARY SYSTEM.
72 13 7 23497 A PROBABILISTIC SEARCH STRATEGY FOR MEDLARS.
72 13 7 23498 A COMMENT ON THE DOUBLE-CHAINED TREE.
72 13 7 23499 STRUCTURAL MODELS OF COMPLEX INFORMATION SOURCES.
72 13 7 23500 AN EXPERIMENT TO STUDY THE USE OF BOOLEAN NOT LOGIC TO IMPROVE THE PRECISION OF SELECTIVE DISSEMINATION OF INFORMATION.
72 13 8 23633 THE 'GENERALITY' EFFECT AND THE RETRIEVAL EVALUATION FOR LARGE COLLECTIONS.
72 13 8 23639 TOWARD AUTOMATIC PROFILE CONSTRUCTION.
72 13 8 23641 FILE ORDERING AND RETRIEVAL COST.
72 13 9 23791 AN EXPERIMENT IN INDEX TERM FREQUENCY.
72 13 10 23923 ON ALGORITHMS PRESERVING NEIGHBORHOOD, TO FILE AND RETRIEVE INFORMATION IN A MEMORY.
72 13 10 23924 COMMENT ON AVERAGE BINARY SEARCH LENGTH.
72 13 11 24076 A NET STRUCTURE FOR SEMANTIC INFORMATION STORAGE, DEDUCTION AND RETRIEVAL.
72 13 12 24209 AN IMAGE MATRIX FOR ACCESSING FILES.
72 13 12 24210 DESIGN CONSIDERATIONS FOR A BOOLEAN SEARCH SYSTEM WITH AUTOMATIC RELEVANCE FEEDBACK PROCESSING.
72 13 12 24211 PRACTICAL ASPECTS OF DOUBLY CHAINED TREES FOR RETRIEVAL.
72 13 12 24212 A CURRENT AWARENESS SYSTEM BASED ON INSPEC TAPES.

3.75 APPLICATIONS
INFORMATION RETRIEVAL - VOCABULARY

72 0 0 81 VOCABULARY CONTROL FOR INFORMATION RETRIEVAL.
72 13 4 22980 AUTOMATIC KEYWORD CLASSIFICATION FOR INFORMATION RETRIEVAL.
72 13 5 23144 INTERACTIVE LEXICON UPDATING.
72 13 7 23495 AN ERROR ANALYSIS FOR FUNCTIONS OF QUALITATIVE ATTRIBUTES WITH APPLICATION TO INFORMATION RETRIEVAL.
72 13 7 23501 COLUMBIA UNIVERSITY SCHOOL OF LIBRARY SERVICE SYSTEM FOR THESAURUS DEVELOPMENT AND MAINTENANCE.
72 13 12 24210 DESIGN CONSIDERATIONS FOR A BOOLEAN SEARCH SYSTEM WITH AUTOMATIC RELEVANCE FEEDBACK PROCESSING.
72 13 12 24211 PRACTICAL ASPECTS OF DOUBLY CHAINED TREES FOR RETRIEVAL.

3.79 APPLICATIONS
INFORMATION RETRIEVAL - MISCELLANEOUS

72 0 0 98 TRAINING IN INDEXING: A COURSE OF THE SOCIETY OF INDEXERS.
72 0 0 115 THE MEANING OF INFORMATION.
72 13 4 22985 MULTI-DIMENSIONAL SECURITY PROGRAM FOR A GENERALIZED INFORMATION RETRIEVAL SYSTEM.
72 13 5 23152 LIBRARY POLICY STRUCTURE: AN INDUSTRIAL DYNAMICS STUDY.
72 13 5 23185 A PROPOSAL FOR A COMPUTER-BASED INTERACTIVE SCIENTIFIC COMMUNITY.
72 13 5 23274 ANALYTICAL MODELS FOR LIBRARY PLANNING.
72 13 6 23341 THE USE OF EXTRACTS IN INFORMATION SERVICES.
72 13 7 23500 AN EXPERIMENT TO STUDY THE USE OF BOOLEAN NOT LOGIC TO IMPROVE THE PRECISION OF SELECTIVE DISSEMINATION OF INFORMATION.
72 13 7 23502 TELEPHONY AND THE LIBRARY.
72 13 7 23503 LIBRARY COMMUNICATIONS PROBLEMS.
72 13 7 23504 QUALITY CONTROL IN THE PUBLISHING PROCESS AND THEORETICAL FOUNDATIONS FOR INFORMATION RETRIEVAL.
72 13 7 23505 THE EFFECT OF GROWTH ON THE OBSOLESCENCE OF SEMICONDUCTOR PHYSICS LITERATURE.
72 13 7 23506 PROGRESS IN DOCUMENTATION: MICROGRAPHICS.
72 13 8 23606 COMPUTERS IN ANTHROPOLOGY AND ARCHEOLOGY.
72 13 8 23699 AN OPTIMIZATION APPROACH TO A CLUSTERING ALGORITHM.
72 13 12 24188 SOME RELATIONS BETWEEN PREDICATE CALCULUS AND SEMANTIC NET REPRESENTATIONS OF DISCOURSE.
72 13 12 24207 ON THE PROBLEMS OF TIME, RETRIEVAL OF TEMPORAL RELATIONS, CAUSALITY, AND CO-EXISTENCE.

3.80 APPLICATIONS
REAL TIME SYSTEMS - GENERAL

72 0 0 13 MATRICES IN CONTROL THEORY.
72 0 0 21 STABILITY THEORY OF DYNAMICAL SYSTEMS.
72 0 0 133 THEORY AND APPLICATIONS OF VARIABLE STRUCTURE SYSTEMS.
72 0 0 137 MULTIVARIABLE CONTROL SYSTEM DESIGN AND APPLICATIONS.
72 0 0 183 OPERATIONS PLANNING AND CONTROL.
72 0 0 196 REALIZABILITY THEORY FOR CONTINUOUS LINEAR SYSTEMS.
72 13 1 22421 A METHOD FOR THE SOLUTION OF CERTAIN NONLINEAR CONTROL PROBLEMS.
72 13 1 22448 THE A.A.E.C. COMPUTER NETWORK DESIGN.
72 13 2 22535 TEACHING A COURSE IN REAL-TIME COMPUTER SYSTEMS DESIGN.
72 13 2 22624 ON-LINE SYSTEMS: PROMISE AND PITFALLS.
72 13 2 22628 COMPUTER THEORY AND TECHNOLOGY - 1.
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72 13 3 22880 THE APL TECHNICAL APPROACH TO REAL-TIME, INTERACTIVE,

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72 13 3 22881 SOFTWARE CONSIDERATIONS FOR SIMULATION HARDWARE IN THE SUPERCOMPUTER ENVIRONMENT.
72 13 3 22883 THE EVOLUTION OF A GRAPHICS SYSTEM FOR LINKED COMPUTERS.
72 13 4 22986 REMOTE REAL-TIME SIMULATION.
72 13 4 22990 ROUND ROBIN SCHEDULING IN A COMPUTER COMMUNICATIONS SYSTEM WITH FINITE SWAP TIME AND STATISTICALLY MULTIPLEXED ARRIVALS.
72 13 5 23186 BRANCH AND BOUND ALGORITHMS FOR TWO SEQUENCE PROBLEMS.
72 13 5 23187 GENERALIZED HAMILTONIAN EQUATIONS FOR CONVEX PROBLEMS OF LAGRANGE.
72 13 6 23350 ON-LINE TEXT EDITING: A SURVEY.
72 13 7 23441 NATURAL LANGUAGE COMMUNICATION FOR A COMPUTER-BASED MEDICAL RECORD.
72 13 7 23473 PROBLEMS IN ON-LINE CHARACTER RECOGNITION.
72 13 7 23507 REAL-TIME COMPUTATIONS.
72 13 7 23520 THE EVOLUTION OF AN OPERATING SYSTEM.
72 13 7 23521 SOVIET CYBERNETICS TECHNOLOGY, XII: TIME-SHARING IN THE SOVIET UNION.
72 13 8 23596 HEURISTIC AND LEARNING PROGRAM APPLICATIONS TO THE DIFFERENTIAL DIAGNOSIS OF NEONATAL HEPATITIS AND EXTRAHEPATIC BILIARY ATRESIA.
72 13 8 23642 MUX- A SIMPLE APPROACH TO ON-LINE COMPUTING.
72 13 8 23710 IBM COMPUTER NETWORK/440.
72 13 8 23711 OCTOPUS: THE LAWRENCE RADIATION LABORATORY NETWORK.
72 13 9 23731 MAN-MADE SYSTEMS AND THEIR DESCRIPTION.
72 13 9 23854 LSI AND MINICOMPUTER SYSTEM ARCHITECTURE.
72 13 10 23925 MAN-MACHINE SYSTEM EXPERIMENTS.
72 13 11 24038 REAL TIME AT BARCLAYS BANK.
72 13 11 24077 SCHEDULING OF REAL-TIME COMPUTER SYSTEMS.
72 13 11 24078 INTERACTIVE COMPUTING AT RAYTHEON.
72 13 11 24084 SURVEY OF ANALYTICAL METHODS IN QUEUEING NETWORKS.
72 13 11 24122 ON TRANSFERENCES AND PRIORITIES IN COMPUTER SYSTEMS AND NETWORKS.
72 13 12 24213 SOME TECHNIQUES IN MULTI-COMPUTER SYSTEM SOFTWARE DESIGN.

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72 0 II 16 INTRODUCTION TO SIGNAL TRANSMISSION.
72 0 0 34 PRINCIPLES OF PULSE CODE MODULATION.
72 0 0 35 ANALYSIS OF LINEAR NETWORKS AND SYSTEMS--A MATRIX-ORIENTED
72 0 0 61 COMMUNICATION, TRANSMISSION AND TRANSPORTATION NETWORK.
72 0 0 69 LEGAL ASPECTS OF SELECTED ISSUES IN TELECOMMUNICATIONS.
72 0 0 113 FLOWS IN TRANSPORTATION NETWORKS.
72 0 0 147 INTRODUCTION TO COMMUNICATION THEORY, APPROACH WITH COMPUTER APPLICATIONS.
72 13 1 22422 PROC. SECOND SYMPOSIUM ON PROBLEMS IN THE OPTIMIZATION OF DATA COMMUNICATIONS SYSTEMS.
72 13 1 22423 STATE-TRANSITION PROGRAMMING TECHNIQUES AND THEIR USE IN PRODUCING TELEPROCESSING DEVICE CONTROL PROGRAMS.
72 13 1 22424 A COMMUNICATIONS INTERFACE FOR COMPUTER NETWORKS.
72 13 1 22425 PROGRESS IN CONTROL PROCEDURE STANDARDIZATION.
72 13 2 22629 DATA TRANSMISSION NETWORK COMPUTER-TO-COMPUTER STUDY.
72 13 2 22630 ANSWERING DATEL TELEPHONE CALLS BY PDP-8.
72 13 3 22765 COMPUNICATIONS IN THE NATIONAL DECISION-MAKING PROCESS.
72 13 3 22789 A PREEMPTIVE PRIORITY MODEL WITH TWO CLASSES OF CUSTOMERS.
72 13 3 22790 AN ANALYSIS OF THE MACHINE INTERFERENCE MODEL.
72 13 3 22791 REDUCING TELEPHONE NETWORK ERRORS.
72 13 4 22987 THE DATA RECONFIGURATION SERVICE - AN EXPERIMENT IN ADAPTABLE, PROCESS-PROCESS COMMUNICATION.
72 13 4 22988 THE PROBABLE FUTURE OF CANADIAN LONG HAUL DIGITAL DATA NETWORK CONNECTIONS WITH THE USA.
72 13 4 22989 TYMNET - A SERENDIPITOUS EVOLUTION.
72 13 4 22990 ROUND ROBIN SCHEDULING IN A COMPUTER COMMUNICATIONS SYSTEM WITH FINITE SWAP TIME AND STATISTICALLY MULTIPLEXED ARRIVALS.
72 13 4 22991 THE DATRAN NETWORK.
72 13 4 22992 POLLING IN A MULTIDROP COMMUNICATION SYSTEM: WAITING LINE ANALYSIS.
72 13 4 22993 WORLD DATA COMMUNICATIONS AS SEEN BY THE DATA PROCESSING SYSTEMS DESIGNER.
72 13 4 22994 DATA COMMUNICATIONS.
72 13 4 22995 A DYNAMIC TIME-SHARING PRIORITY QUEUE.
72 13 4 22996 A NOTE ON SOME MATHEMATICAL MODELS OF TIME-SHARING SYSTEMS.
72 13 4 23077 CONTROLLING A REAL-TIME PARALLEL PROCESSING COMPUTER.
72 13 5 23188 MODERN DATA COMMUNICATIONS.
72 13 5 23189 DESIGN SPECIFICATIONS FOR A GENERALIZED TELEPROCESSING SYSTEM.
72 13 5 23272 OPTIMAL DESIGN OF CENTRALIZED COMPUTER NETWORKS.
72 13 6 23351 DEMULTIPLEXING CONSIDERATIONS FOR STATISTICAL MULTIPLEXORS.
72 13 6 23352 PERFORMANCE MEASUREMENTS ON THE ARPA COMPUTER NETWORK.
72 13 6 23353 ANALYSIS OF LOOP TRANSMISSION SYSTEMS.
72 13 6 23354 GENERATION OF SYNCHRONOUS DATA TRANSMISSION SIGNALS BY DIGITAL ECHO MODULATION.
72 13 7 23411 COMPUTER NETWORKS.
72 13 7 23490 SUMMARY DISCUSSION.
72 13 7 23502 TELEPHONY AND THE LIBRARY.
72 13 7 23508 NETWORKS: AN INTRODUCTION.
72 13 8 23716 DATA RING ORIENTED COMPUTER NETWORKS.
72 13 9 23794 INTRODUCTION TO TELEPROCESSING.
72 13 9 23795 DISTRIBUTED NETWORK ACTIVITY AT IBM.
72 13 9 23796 MERIT COMPUTER NETWORK.
72 13 9 23797 MERIT COMPUTER NETWORK: HARDWARE CONSIDERATIONS.
72 13 9 23798 MERIT COMPUTER NETWORK: SOFTWARE CONSIDERATIONS.
72 13 9 23799 OPTIMAL AND SUBOPTIMAL CAPACITY ALLOCATION IN COMMUNICATION NETWORKS.
72 13 9 23806 THE USE OF SERVICE TIME DISTRIBUTIONS IN SCHEDULING.
72 13 9 23857 TIME FLOW MECHANISMS FOR DISCRETE EVENT SIMULATION MODELS.
72 13 10 23926 NASDAQ - A USER-DRIVEN, REAL-TIME TRANSACTION SYSTEM.
72 13 10 23927 A MODEM FOR MILLER CODED DIGITAL DATA.
72 13 10 23928 A HIGH-SPEED COMPUTER-TO-COMPUTER DATA LINK.
72 13 11 24079 DATA COMMUNICATIONS AND BUSINESS SYSTEMS.
72 13 11 24080 THE TERMINAL IMP FOR THE ARPA COMPUTER NETWORK.
72 13 11 24081 COMPUTER COMMUNICATION NETWORK DESIGN - EXPERIENCE WITH THEORY AND PRACTICE.
72 13 11 24082 FUNCTION-ORIENTED PROTOCOLS FOR THE ARPA COMPUTER NETWORK.
72 13 11 24083 EXTENSIONS OF PACKET COMMUNICATION TECHNOLOGY TO A HAND-HELD PERSONAL TERMINAL.
72 13 11 24084 SURVEY OF ANALYTICAL METHODS IN QUEUEING NETWORKS.
72 13 11 24085 DATA COMMUNICATIONS AND INFORMATION SECURITY.
72 13 11 24086 MCI VS. AT&T.
72 13 11 24087 NEW CHALLENGE TO THE EDP MANAGER.
72 13 11 24088 MAKING IT WORK: WHAT IS THE BOTTLENECK?
72 13 11 24105 COMPUTER NETWORK DEVELOPMENT TO ACHIEVE RESOURCE SHARING.
72 13 11 24106 MCROSS - A MULTI-COMPUTER PROGRAMMING SYSTEM.
72 13 11 24139 IMPROVEMENT OF MARKO'S MODEL TOWARD THE INTER-LOCUTIONAL COMMUNICATION THEORY.
72 13 12 24157 TELECOMMISSION DIRECTING COMMITTEE.
72 13 12 24201 ADDING PEOPLE TO THE MIS LOOP.

72 13 12 24214 EUROPEAN STATUS OF DATA COMMUNICATION.
72 13 12 24215 STRATEGIES FOR OPERATING SYSTEMS IN COMPUTER NETWORKS.

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72 0 0 77 HANDBOOK OF INDUSTRIAL CONTROL COMPUTERS.
72 0 0 135 LOGICAL CONTROL SYSTEMS.
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72 13 1 22426 MANAGEMENT GUIDE TO NC.
72 13 1 22435 MINUTES: FOURTH WORKSHOP ON STANDARDIZATION OF INDUSTRIAL COMPUTER LANGUAGES.
72 13 1 22439 REPORT OF THE FORTRAN COMMITTEE AND PROPOSED STANDARDS FOR INDUSTRIAL APPLICATIONS.
72 13 1 22440 PRELIMINARY RECOMMENDED SPECIFICATIONS AND PROCEDURES FOR A PROCESS ORIENTED LANGUAGE.
72 13 1 22441 REPORT OF THE LONG TERM PROCEDURAL LANGUAGES COMMITTEE. PRELIMINARY DESCRIPTION OF CHOSEN FUNCTIONS FOR INCORPORATION INTO PROPOSED SPECIFICATION OF LONG TERM PROCEDURAL LANGUAGE.
72 13 1 22515 REPORT OF THE FUNCTIONAL REQUIREMENTS COMMITTEE.
72 13 4 22928 A STOCHASTIC SIMULATION MODEL OF A CHEMICAL PLANT.
72 13 4 22960 FORD MOTOR COMPANY: A DIRECT APPROACH TO COMPUTER GRAPHICS.
72 13 4 22997 ADAPTIVE MEMORY TRACKERS.
72 13 4 22998 WEIGHTING FUNCTION ESTIMATION IN DISTRIBUTED-PARAMETER SYSTEMS.
72 13 4 22999 RISE OF THE BLUE-COLLAR COMPUTER.
72 13 4 23065 CUTTING PLANE ALGORITHMS AND STATE SPACE CONSTRAINED LINEAR OPTIMAL CONTROL PROBLEMS.
72 13 5 23127 STOCHASTIC APPROXIMATION ALGORITHMS FOR SYSTEM IDENTIFICATION USING NORMAL OPERATING DATA.
72 13 6 23322 NETWORK PLANNING IN INDUSTRIAL PROCESSING.
72 13 6 23356 A HYBRID CONTROLLER FOR PSUEDO-OPTIMAL FEEDBACK CONTROL OF NONLINEAR SYSTEMS.
72 13 6 23357 TIME-OPTIMAL CONTROL OF BASIS WEIGHT.
72 13 7 23560 ROUTING IN COMPUTER NETWORKS.
72 13 7 23561 EVALUATION OF AN INTERACTIVE-BATCH SYSTEM NETWORK.
72 13 9 23756 CHEMICAL PLANT SIMULATION: AN INTRODUCTION TO COMPUTER-AIDED STEADY-STATE PROCESS ANALYSIS.
72 13 10 23882 A CONTRIBUTION TO THE THEORY OF OPTIMIZATION WITH MARKOVIAN CONTROLS.
72 13 10 23901 APPLICATIONS OF NUMERICAL MEASURING SYSTEMS.
72 13 10 23902 TREND-SETTING DEVELOPMENTS.
72 13 10 23929 NUMERICAL CONTROL USERS' HANDBOOK.
72 13 10 23930 PREPARING TO USE NUMERICAL CONTROL.
72 13 10 23931 TYPES OF NC MACHINE TOOL.
72 13 10 23932 BUYING AN NC MACHINE TOOL.
72 13 10 23933 ECONOMIC APPRAISAL.
72 13 10 23942 THE BASIS OF CUTTING CALCULATIONS IN EXAPT.
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72 13 12 24216 THE DEVELOPMENT OF PROCESS CONTROL SOFTWARE.
72 13 12 24217 FUTURE TRENDS IN SOFTWARE DEVELOPMENT FOR REAL-TIME INDUSTRIAL AUTOMATION.
72 13 12 24218 COMPATIBLE CONTROLLERS FOR TIME-VARYING LINEAR PLANTS.
72 13 12 24223 COMPUTER PRODUCTION OF CONTROL TAPES.
72 13 12 24224 STANDARDS.
72 13 12 24225 EXAPT 1.
72 13 12 24226 EXAPT 2.

3.83 APPLICATIONS
REAL TIME SYSTEMS - TELEMETRY, MISSILES, SPACE

72 13 4 22927 SOFTWARE VALIDATION OF THE TITAN IIIC DIGITAL FLIGHT CONTROL SYSTEM UTILIZING A HYBRID COMPUTER.
72 13 6 23303 A DIGITAL PROCESSING SYSTEM FOR SEISMIC ARRAY DATA.
72 13 7 23509 A SOFTWARE ENGINEERING APPROACH TO THE SPACE INFORMATION SYSTEM OF THE FUTURE.
72 13 9 23805 PROGRAMMING LANGUAGE EFFICIENCY IN REAL-TIME SOFTWARE SYSTEMS.

3.89 APPLICATIONS
REAL TIME SYSTEMS - MISCELLANEOUS

72 0 0 29 DISCRETE-TIME SYSTEMS.
72 13 1 22463 CANONICAL MINIMAL REALIZATION OF A MATRIX OF IMPULSE RESPONSE SEQUENCES.
72 13 2 22602 CONFERENCE RESULTS.
72 13 2 22602 MANAGEMENT PROSPECTS AND PROBLEMS.
72 13 2 22602 PLANNING COMMUNITY INFORMATION UTILITIES.
72 13 2 22602 PLANNING COMMUNITY INFORMATION UTILITIES. (PANEL SESSION)
72 13 2 22602 INFORMATION SERVICES.
72 13 2 22602 SOFTWARE DESIGN FOR THE COMMUNITY INFORMATION UTILITY.
72 13 2 22609 DRIVER AND THE TRUSTEE SAVINGS BANKS ALTRINCHAM SYSTEM.
72 13 3 22712 AUTOMATA - WITHOUT LIMITS.
72 13 3 22748 REAL-TIME DISPLAY SYSTEM OF RESPONSE CHARACTERISTICS OF MANUAL CONTROL SYSTEMS.
72 13 3 22792 USER ENGINEERING PRINCIPLES FOR INTERACTIVE SYSTEMS.
72 13 3 22793 COMPUTER-ASSISTED TRACING OF TEXT EVOLUTION.
72 13 3 22798 LANGUAGES ORIENTED TOWARD ALGORITHMS EXECUTABLE IN REAL-TIME.
72 13 4 22926 THE HANDLING QUALITIES SIMULATION PROGRAM FOR THE AUGMENTOR WING JET STOL RESEARCH AIRCRAFT.
72 13 4 23086 INTRODUCTION TO TRAINING SIMULATOR PROGRAMMING.
72 13 5 23156 REAL-TIME TRAFFIC FLOW OPTIMIZATION.
72 13 5 23190 DYNAMIC LINEARIZATION AND NONLINEAR FILTERING WITH APPLICATION TO A TRACKING PROBLEM.
72 13 6 23333 ON A CLASS OF PURSUIT AND EVASION PROBLEMS.
72 13 7 23442 THE PROGRESS NOTES OF THE PHYSICAL EXAMINATION.
72 13 7 23458 THE COMPUTER UTILITY: IMPLICATIONS FOR HIGHER EDUCATION.
72 13 7 2349? HUMAN FACTORS IN THE DESIGN OF AN INTERACTIVE LIBRARY SYSTEM.
72 13 8 23594 INDIVIDUALIZING INSTRUCTION IN A GENERATIVE CAI TUTOR.
72 13 8 23643 QUINTUPLING THE SPEED OF THE PDP-8 DF32 DISK SYSTEM FOR REAL-TIME USE.
72 13 9 23859 EFFECTS OF STORAGE ON SYSTEM PERFORMANCE.
72 13 10 24006 GULD - A GRAPHICAL ON-LINE DESIGN SYSTEM.
72 13 11 24089 COMPUTER COMPOSITION USING PAGE-1.

3.90 APPLICATIONS
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72 13 1 22427 SPORTS AND EDP - IT'S A NEW BALLGAME
72 13 2 22528 ELEMENTARY COMPUTER APPLICATIONS IN SCIENCE, ENGINEERING, AND BUSINESS.
72 13 2 22543 COMPUTER IN TRACK.
72 13 2 22543 COMPUTERS IN SPORTS. (PANEL SESSION)
72 13 2 22543 FOOTBALL PLAYER RANKING SYSTEMS.
72 13 2 22543 COMPUTERS AND SCOREBOARDS.

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13 2 22543 THE USER'S REACTION To FOOTBALL PLAY ANALYSIS AND PLAYER
13 2 22543 PROSPECTS FOR SOPHISTICATION IN FOOTBALL PLAY ANALYSIS.
13 2 22543 PORTABLE COMPUTER TIMING, ANALYSIS, AND DISPLAY SYSTEMS FOR ROWING APPLICATIONS; LEGAL PROBLEMS IN COMPUTER SPORT SYSTEMS. RANKING - DO THEY MAKE ANY DIFFERENCE?
13 4 22889 FUNDAMENTAL APPLICATIONS - AN OVERVIEW.
13 7 23510 STRUCTURING INFORMATION FOR A COMPUTER-BASED COMMUNICATIONS MEDIUM.
13 9 23855 NETWORKS OF BUILDING BLOCKS: DYNAMIC SYSTEMS.

4.00 PROGRAMMING GENERAL

0 0 43 STRUCTURED PROGRAMMING.
0 0 156 MINICOMPUTERS: HARDWARE, SOFTWARE, AND APPLICATIONS.
13 1 22368 THE SOKEN KIYO (REPORTS OF RESEARCH ACTIVITIES ON COMPUTER SCIENCES AND TECHNOLOGY).
13 1 22428 ON SCHEMES OF ALGORITHMS DEFINED ON SITUATIONS.
13 1 22429 THE PRODUCTION OF MATHEMATICAL SOFTWARE FOR A MASS AUDIENCE.
13 1 22435 MINUTES: FOURTH WORKSHOP ON STANDARDIZATION OF INDUSTRIAL COMPUTER LANGUAGES.
13 1 22437 CODASYL SYMPOSIUM.
13 1 22439 REPORT OF THE FORTRAN COMMITTEE AND PROPOSED STANDARDS FOR INDUSTRIAL APPLICATIONS.
13 1 22515 REPORT OF THE FUNCTIONAL REQUIREMENTS COMMITTEE.
13 2 22631 COMPUTER PROGRAMS DIRECTORY 1971.
13 3 22709 COMPUTER PROGRAMMING SYSTEM/360. (2D ED.)
13 3 22757 A GUIDE TO PACKAGED SYSTEMS.
13 4 22955 DECISION TABLES: THEORY AND PRACTICE.
13 4 22968 ACHIEVING PROPER PROGRAM DOCUMENTATION.
13 4 23000 COMPUTER PROGRAMS DIRECTORY-1971.
13 4 23001 THE PSYCHOLOGY OF COMPUTER PROGRAMMING.
13 5 23092 PARALLELISM IN HARDWARE AND SOFTWARE: REAL AND APPARENT CONCURRENCY.
13 5 23191 FLOWCHARTING TECHNIQUES.
13 7 23409 FLOWCHARTING: AN INTRODUCTORY TEXT AND WORKBOOK.
13 7 23412 PREPARING FLOWCHARTS WITH THE ANSI STANDARD: A GUIDE.
13 7 23511 COMPUTER PROGRAMMING FUNDAMENTALS.
13 7 23512 SOFTWARE ENGINEERING. VOL. 2.
13 8 23708 A PRACTICAL GUIDE TO MINICOMPUTER APPLICATIONS.
13 9 23800 AUTOMATIC PROGRAMMING.
13 9 23801 THE QUALITY OF SOFTWARE.
13 10 23862 THE ARCHITECTURE AND ENGINEERING OF DIGITAL COMPUTER COMPLEXES. VOL. 1.
13 10 23863 THE ARCHITECTURE AND ENGINEERING OF DIGITAL COMPUTER COMPLEXES. VOL. 2.
13 10 23934 A LABORATORY FOR THE STUDY OF AUTOMATING PROGRAMMING.
13 10 23991 THE INTERPLAY OF COMPUTER SCIENCE AND LARGE SCALE SCIENTIFIC
13 10 23991 COMPUTER ARCHITECTURE AND VERY LARGE PROBLEMS.
13 11 24008 COMPUTERS AND AUTOMATA.
13 11 24017 INTRODUCTION TO COMPUTER PROGRAMMING.
13 11 24022 AESTHETICS AND THE HUMAN FACTOR IN PROGRAMMING.
13 11 24042 CHALLENGE TO ARTIFICIAL INTELLIGENCE: PROGRAMMING PROBLEMS TO BE SOLVED.
13 11 24090 SOME NOTES ON SPEEDING UP CERTAIN LOOPS BY SOFTWARE, FIRMWARE, AND HARDWARE MEANS.
13 11 24130 TOWARD OPTIMAL PAGINATIONS FOR STRUCTURED PROGRAMS.
13 11 24131 MINIMIZING WASTED SPACE IN PARTITIONED SEGMENTATION.
13 11 24144 THE DISTRIBUTION SYSTEM SIMULATOR.
13 12 24149 THE BEST COMPUTER PAPERS OF 1971.

4.10 PROGRAMMING PROCESSORS - GENERAL

0 0 182 IBM SYSTEM/360 ASSEMBLER LANGUAGE DESK/TAPE ADVANCED CONCEPTS.
13 1 22368 THE SOKEN KIYO (REPORTS OF RESEARCH ACTIVITIES ON COMPUTER SCIENCES AND TECHNOLOGY).
13 1 22447 SOFTWARE ENGINEERING TECHNIQUES USED IN THE DEVELOPMENT OF THE CAMBRIDGE MULTIPLE-ACCESS SYSTEM.
13 2 22632 COMPUTER THEORY AND TECHNOLOGY - 2.
13 5 23192 MP-I - A FORTRAN MACROPROCESSOR.
13 5 23208 SYSTEM DEADLOCKS.
13 9 23802 UNIVERSAL PROGRAMMABLE PROCESSOR.
13 11 24091 A FORMAL MICROPROGRAM MODEL OF PARALLELISM AND REGISTER SHARING.
13 11 24127 ABSTRACT MACHINE MODELING TO PRODUCE PORTABLE SOFTWARE - A REVIEW AND EVALUATION.
13 12 24231 AN IMPLEMENTATION OF PHRASE STRUCTURES IN ALGOL.

4.11 PROGRAMMING PROCESSORS - ASSEMBLERS

13 2 22537 SIMULATING A SMALL MACHINE FOR TEACHING PURPOSES.
13 3 22798 LANGUAGES ORIENTED TOWARD ALGORITHMS EXECUTABLE IN REAL-TIME.
13 5 23193 ETC - AN EXTENDIBLE MACRO-BASED COMPILER.

4.12 PROGRAMMING PROCESSORS - COMPILERS AND GENERATORS

13 1 22430 A STUDY OF CODE OPTIMIZATION USING A GENERAL-PURPOSE OPTIMIZER.
13 1 22431 AN IMPLEMENTATION SYSTEM FOR DESIGNING COMPUTER-BASED EXPERIMENTS.
13 1 22432 PARALLEL COMPILING TECHNIQUES.
13 1 22449 PARALLEL PROGRAMMING: OPERATIONAL MODEL AND DETECTION OF PARALLELISM.
13 2 22603 ON THE REPRESENTATIONS OF DATA STRUCTURE AND DATA RETRIEVAL MECHANISMS.
13 2 22604 FORIMS PHASE 0 IMPLEMENTATION NOTE.
13 2 22633 SUBEXPRESSION ORDERING IN THE EXECUTION OF ARITHMETIC EXPRESSIONS.
13 2 22637 PROGRAMMING LANGUAGE I FOR THE VARIAN - PLCV.
13 2 22641 THE NEXT STANDARD FORTRAN?
13 2 22679 ON STOCHASTIC CONTEXT-FREE LANGUAGES.
13 3 22792 USER ENGINEERING PRINCIPLES FOR INTERACTIVE SYSTEMS.
13 3 22794 WATFOR - SPEEDY FORTRAN DEBUGGER.
13 3 22802 COMPILER CONSTRUCTION FOR DEBUGGING.
13 3 22853 ON THE EXISTENCE OF GENERATORS FOR CERTAIN AFL.
13 3 22860 DIRECTED GRAPHS AND AUTOMATIC FLOWCHARTING.
13 4 23002 ON THE CONSTRUCTION OF LR(K) ANALYZERS.
13 4 23003 FORTRAN EXTENDED-PRECISION LIBRARY.
13 4 23004 SOME COMMENTS ON THE PORTABILITY OF A LARGE ALGOL PROGRAM - THE IMPLEMENTATION OF SID ON KDF9.
13 4 23011 BLISS: A LANGUAGE FOR SYSTEMS PROGRAMMING.
13 5 23193 ETC - AN EXTENDIBLE MACRO-BASED COMPILER.
13 5 23194 SYSTEM-ORIENTED APPROACH TO CONSTRUCTION OF TRANSLATORS FOR COMPUTING SYSTEMS.
13 5 23195 ON THE METALANGUAGE FOR SYNTAX DRIVEN COMPILERS.
13 5 23196 THE DESIGN OF A PASCAL COMPILER.
13 6 23358 EFFICIENT EVALUATION OF ARRAY SUBSCRIPTS OF ARRAYS.
13 7 23542 FORMAL SEMANTIC DEFINITION AND THE PROOF OF COMPILER CORRECTNESS.
13 8 23644 CCC - A MIXED STRATEGY COMPILER-COMPILER.
13 8 23648 TRENDS OF DEVELOPMENT IN AUTOMATIC PROGRAMMING BASED ON LARGE-BLOCK SYSTEMS.
13 8 23683 A GLOBAL FLOW ANALYSIS ALGORITHM.
13 9 23838 WEAK AND MIXED STRATEGY PRECEDENCE PARSING.
13 9 23839 A BOOLEAN MATRIX METHOD FOR THE COMPUTATION OF LINEAR PRECEDENCE FUNCTIONS.
13 10 23935 AN APPRAISAL OF COMPILER TECHNOLOGY.
13 10 23936 THE STRUCTURE AND PERFORMANCE OF PLUTO, A TEACHING-ORIENTED PL-I COMPILER SYSTEM.
13 10 23943 SEGMENTATION AND OPTIMIZATION OF PROGRAMS FROM CYCLIC STRUCTURE ANALYSIS.
13 10 23956 COMPILING FIXED-POINT MULTIPLICATIONS.
13 10 23977 APPLICATIONS OF LANGUAGE THEORY TO COMPILER DESIGN.
13 11 24098 AMBUSH - A CASE HISTORY IN LANGUAGE DESIGN.
13 12 24219 THE IMPLEMENTATION OF STAB-1.
13 12 24220 GENERATING PARSERS FOR AFFIX GRAMMARS.
13 12 24230 CONTEXT CONDITIONS IN ALGOL 68.
13 12 24238 STRUCTURED MULTIPROGRAMMING.

4.13 PROGRAMMING PROCESSORS - INTERPRETERS

13 2 22605 FORIMS PHASE 1 DESIGN NOTE.
13 6 23398 READINGS IN MICROPROGRAMMING.
13 10 23936 THE STRUCTURE AND PERFORMANCE OF PLUTO, A TEACHING-ORIENTED PL-I COMPILER SYSTEM.
13 10 23937 THE VIENNA DEFINITION LANGUAGE.
13 12 24219 THE IMPLEMENTATION OF STAB-1.
13 12 24221 AN IMPLEMENTATION OF THE BASIC PROGRAMMING LANGUAGE FOR THE IBM 1130 COMPUTER.
13 12 24222 A MIX SIMULATOR FOR THE IBM 1130.
13 12 24282 THE LAMBDA CALCULUS AND ITS RELATION TO PROGRAMMING LANGUAGES.

4.19 PROGRAMMING PROCESSORS - MISCELLANEOUS

13 1 22433 BETTER TECHNIQUES FOR DEVELOPING LARGE SCALE FORTRAN PROGRAMS.
13 1 22434 AN ALGOL LINE-SYNTAX CHECKER.
13 2 22634 ON AN OPERATOR PROGRAMMING SYSTEM. 1. GENERAL DESCRIPTION.
13 2 22703 MAKING THE HARDWARE SUIT THE LANGUAGE.
13 3 22795 SECURITY IN SOFTWARE.
13 7 23513 A NOTE ON CHENEY'S NONRECURSIVE LIST-COMPACTING ALGORITHM.

4.20 PROGRAMMING PROGRAMMING LANGUAGES - GENERAL

13 1 22369 DATA PROCESSING AND COMPUTER PROGRAMMING: A MODULAR APPROACH.
13 1 22435 MINUTES: FOURTH WORKSHOP ON STANDARDIZATION OF INDUSTRIAL COMPUTER LANGUAGES.
13 2 22679 ON STOCHASTIC CONTEXT-FREE LANGUAGES.
13 4 23005 PROGRAMMING FACILITIES.
13 4 23006 A SURVEY OF PROGRAMMING AND PROGRAMMING LANGUAGES.
13 4 23007 PROGRAMMING LANGUAGES; A TECHNICAL OVERVIEW.
13 5 23192 MP-I - A FORTRAN MACROPROCESSOR.
13 6 23280 A VIEW OF PROGRAMMING LANGUAGES.
13 6 23359 PL-I PROGRAMMING FOR ENGINEERING AND SCIENCE.
13 7 23566 PROGRAMMING LANGUAGES FOR COMPUTER SIMULATION.
13 10 23938 DECISION TABLES: THEORY AND PRACTICE.
13 10 23939 THE FUTURE OF SPECIALIZED LANGUAGES.
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0 0 163 FORTRAN FOR ENGINEERING.
0 0 167 MORE FORTRAN PROGRAMS FOR ECONOMISTS.
0 0 172 WATFOR WATFIVE FORTRAN PROGRAMMING.
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0 0 176 OS JOB CONTROL LANGUAGE.
0 0 179 INTRODUCTION TO COMPUTER PROGRAMMING IBM SYSTEM/360 PL/I.
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SYSTEM/370
72 13 1 22370 PROGRAMMING MANUAL FOR PL/I. BASIC LANGUAGE.
72 13 1 22373 COBOL, A SELF-INSTRUCTIONAL MANUAL. (2D ED.)
72 13 1 22374 EASNAP - AN ON-LINE SYSTEM FOR ARTS STUDENTS.
72 13 1 22407 FORTRAN APPLICATIONS IN BUSINESS ADMINISTRATION.
72 13 1 22432 PARALLEL COMPILING TECHNIQUES.
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2 13 7 23511 COMPUTER PROGRAMMING FUNDAMENTALS.
2 13 8 23712 OPTIMIZATION OF MEMORY HIERARCHIES IN MULTIPROGRAMMED SYSTEMS.
2 13 9 23608 TERMINAL ACCESS TO THE ARPA COMPUTER NETWORK.
2 13 9 23652 THE EXTERNAL ACCESS NETWORK OF A MODULAR COMPUTER SYSTEM.
2 13 9 23853 STATUS REPORT: DEDICATED COMPUTERS IN CHEMISTRY.
2 13 10 23996 DISTRIBUTED COMPUTING SYSTEMS.
2 13 11 24097 PROGRAMMING THE IBM 1130.
2 13 11 24110 BUSY PERIOD ANALYSIS OF A TIME-SHARING SYSTEM: TRANSFORM INVERSION.

6.22 DESIGN AND CONSTRUCTION
COMPUTER SYSTEMS - SPECIAL PURPOSE COMPUTERS

2 13 1 22432 PARALLEL COMPILING TECHNIQUES.
2 13 1 22435 MINUTES: FOURTH WORKSHOP ON STANDARDIZATION OF INDUSTRIAL COMPUTER LANGUAGES.
2 13 1 22510 TRACE-III: AN IMPLICIT PROGRAMMING SYSTEM FOR INDUCTIVE DATA ANALYSIS.
2 13 1 22515 REPORT OF THE FUNCTIONAL REQUIREMENTS COMMITTEE.
2 13 3 22748 REAL-TIME DISPLAY SYSTEM OF RESPONSE CHARACTERISTICS OF MANUAL CONTROL SYSTEMS.
2 13 4 23078 THE NEUROTRON MONITOR SYSTEM.
2 13 4 23079 THE IMPACT OF FUTURE DEVELOPMENTS IN COMPUTER TECHNOLOGY.
2 13 5 23276 A DISPLAY PACKAGE FOR CAD OF CONTROL SYSTEMS.
2 13 6 23363 ECONOMIZING PROGRAM MEMORY OF SPECIAL-PURPOSE DIGITAL COMPUTERS.
2 13 7 23557 THE DESIGN OF DIGITAL SYSTEMS.
2 13 [illegible] 23854 LSI AND MINICOMPUTER SYSTEM ARCHITECTURE.
2 13 10 23997 A SNOBOL MACHINE: FUNCTIONAL ARCHITECTURAL CONCEPTS OF A STRING PROCESSOR.
2 13 12 24179 COMPUTERS IN HOSPITAL ADMINISTRATION.

6.29 DESIGN AND CONSTRUCTION
COMPUTER SYSTEMS - MISCELLANEOUS

2 13 1 22518 THE TABLON MASS STORAGE NETWORK.
2 13 3 22723 SECURITY CONTROLS FOR COMPUTER SYSTEMS.
2 13 3 22734 AUTOMATIC PULSE PARAMETER DETERMINATION WITH THE COMPUTER AUGMENTED OCSILLOSCOPE SYSTEM.
2 13 3 22773 LEARNING PROCESS IN A MODEL OF ASSOCIATIVE MEMORY.
2 13 3 22804 TESTING CONVERSATIONAL SYSTEMS.
2 13 3 22834 NUMERICAL SOLUTION OF PARTIAL DIFFERENTIAL EQUATIONS BY ASSOCIATIVE PROCESSING.
2 13 3 22878 THROUGHPUT MEASUREMENT USING A SYNTHETIC JOB STREAM.
2 13 5 23115 EVALUATION OF TECHNICAL-ECONOMICAL INDICATORS OF HIGH PERFORMANCE, HOMOGENEOUS, UNIVERSAL COMPUTING SYSTEMS.
2 13 7 23561 EVALUATION OF AN INTERACTIVE-BATCH SYSTEM NETWORK.
2 13 8 23702 ERROR CORRECTING CODES FOR EXCHANGE OF INFORMATION BETWEEN COMPUTERS.
2 13 9 23760 DATA BANKS IN LIFE SCIENCE AND MEDICINE.
2 13 9 23856 APPROACHING THE MINICOMPUTER ON A SILICON CHIP - PROGRESS AND EXPECTATIONS FOR LSI CIRCUITS.

6.30 DESIGN AND CONSTRUCTION
COMPONENTS AND CIRCUITS - GENERAL

2 13 3 22834 NUMERICAL SOLUTION OF PARTIAL DIFFERENTIAL EQUATIONS BY ASSOCIATIVE PROCESSING.
2 13 4 23080 A NEW APPROACH TO IMPLEMENTING HIGH-DENSITY SHIFT REGISTERS.
2 13 4 23081 ELECTRONIC COMPUTER MEMORY TECHNOLOGY.
2 13 5 23095 BEGINNER'S GUIDE TO COMPUTER LOGIC.
2 13 5 23266 UNIVERSAL LOGIC MODULES IMPLEMENTED USING LSI MEMORY TECHNIQUES.
2 13 8 23703 FUNCTIONAL SIMULATION TECHNIQUES FOR DESIGN VERIFICATION AND FAULT INSERTION IN ELECTRONIC DIGITAL SYSTEMS.
2 13 8 23704 THE DEVELOPMENT OF PROCEDURES FOR THE ANALYSIS AND SYNTHESIS OF A HIGHLY DEFINED CLASS OF FAULT TOLERANT COMPUTER SYSTEMS.
2 13 8 23705 THE ANALYSIS AND SYNTHESIS OF METHODS FOR THE MODELING OF DIFFERENT FAULT CLASSES IN A DIGITAL LOGIC SIMULATION SYSTEM.
2 13 8 23713 HARDWARE TECHNOLOGY.
2 13 8 23714 THE SEMICONDUCTOR REVOLUTION.

6.30 DESIGN AND CONSTRUCTION - COMPONENTS AND CIRCUITS

2 13 9 23855 NETWORKS OF BUILDING BLOCKS: DYNAMIC SYSTEMS.
2 13 9 23859 EFFECTS OF STORAGE ON SYSTEM PERFORMANCE.
2 13 10 23996 DISTRIBUTED COMPUTING SYSTEMS.
2 13 11 24141 USE OF THE GOLAY LOGIC PROCESSOR IN PATTERN-RECOGNITION STUDIES USING HEXAGONAL NEIGHBORHOOD LOGIC.

6.31 DESIGN AND CONSTRUCTION
COMPONENTS AND CIRCUITS - CIRCUIT ELEMENTS

2 13 4 22930 INTRODUCTION TO COMPUTER ANALYSIS: ECAP FOR ELECTRONICS TECHNICIANS AND ENGINEERS.
2 13 4 23080 A NEW APPROACH TO IMPLEMENTING HIGH-DENSITY SHIFT REGISTERS.
2 13 [illegible] 23714 THE SEMICONDUCTOR REVOLUTION.
2 13 9 23856 APPROACHING THE MINICOMPUTER ON A SILICON CHIP - PROGRESS AND EXPECTATIONS FOR LSI CIRCUITS.
2 13 10 23998 LSI PERSPECTIVE - THE LAST FIVE YEARS.

6.32 DESIGN AND CONSTRUCTION
COMPONENTS AND CIRCUITS - ARITHMETIC UNITS

2 13 1 22516 SELECTION OF CARRY-OVER CIRCUITS FOR BINARY ADDERS WITH THE UNIFORM POSITION STRUCTURE.
2 13 4 23080 A NEW APPROACH TO IMPLEMENTING HIGH-DENSITY SHIFT REGISTERS.
2 13 7 23557 THE DESIGN OF DIGITAL SYSTEMS.
2 13 8 23715 ARITHMETIC.
2 13 12 24246 DIGITAL COMPUTER ARITHMETIC: A UNIFIED ALGORITHMIC SPECIFICATION.
2 13 12 24291 CELLULAR ARRAYS AND ARITHMETIC UNITS: A SYNTHESIS PROCEDURE.

6.33 DESIGN AND CONSTRUCTION
COMPONENTS AND CIRCUITS - CONTROL UNITS

2 13 7 23557 THE DESIGN OF DIGITAL SYSTEMS.
2 13 8 23716 DATA RING ORIENTED COMPUTER NETWORKS.
2 13 8 23717 DESIGN INNOVATIONS OF THE IBM 3830 AND 2835 STORAGE CONTROL UNITS.
2 13 10 23995 TOWARD MORE EFFICIENT COMPUTER ORGANIZATIONS.
2 13 11 24080 THE TERMINAL IMP FOR THE ARPA COMPUTER NETWORK.
2 13 12 24292 A GENERAL-PURPOSE ASCII DECODER FOR CONTROL OF PERIPHERAL DEVICES FOR CAI TERMINALS.

6.34 DESIGN AND CONSTRUCTION
COMPONENTS AND CIRCUITS - STORAGE UNITS

2 0 0 65 AN INTRODUCTION TO MAGNETIC DISCS.
2 13 1 22517 CALIBRATION OF NBS SECONDARY STANDARD MAGNETIC TAPE (COMPUTER CATALOG NO. C13.10: 260-29, SUPERINTENDENT OF DOCUMENTS, US GOVERNMENT PRINTING OFFICE, WASHINGTON, D. C., 1971, 49 PP.
2 13 1 22518 THE TABLON MASS STORAGE NETWORK.
2 13 1 22519 LUPANOV DECODING NETWORKS.
2 13 2 22579 MULTIPLE CHANNEL DIRECT DIGITAL RECORDING OF EEG DATA.
2 13 4 23081 ELECTRONIC COMPUTER MEMORY TECHNOLOGY.
2 13 5 23266 UNIVERSAL LOGIC MODULES IMPLEMENTED USING LSI MEMORY TECHNIQUES.
2 13 5 23267 A STORAGE CELL REDUCTION TECHNIQUE FOR ROS DESIGN.
2 13 5 23268 READOUT PERFORMANCE ANALYSIS OF A CRYOGENIC MAGNETO-OPTICAL DATA STORAGE SYSTEM.
2 13 5 23269 CROSS-COUPLED THYRISTER STORAGE CELL.
2 13 7 23562 SILICON PROCESS TECHNOLOGY FOR MONOLITHIC MEMORY.
2 13 8 23653 A COMPARATIVE ANALYSIS OF DISK SCHEDULING POLICIES.
2 13 8 23712 OPTIMIZATION OF MEMORY HIERARCHIES IN MULTIPROGRAMMED SYSTEMS.
2 13 8 23717 DESIGN INNOVATIONS OF THE IBM 3830 AND 2835 STORAGE CONTROL UNITS.
2 13 8 23718 DESIGN CONSIDERATIONS FOR A MAGNETO-OPTIC CRYOGENIC FILM MEMORY.
2 13 10 23951 VIRTUAL STORAGE AND VIRTUAL MACHINE CONCEPTS.
2 13 10 23999 RANDOM FILES AND A SUBROUTINE FOR CREATING A RANDOM ADDRESS.
2 13 12 24235 A SOLUTION OF THE PROBLEM ON OPTIMAL DISTRIBUTION OF MEMORY BETWEEN WORKING FIELDS OF SUBROUTINES.
2 13 12 24241 PRACTICAL EXPERIENCE WITH VIRTUAL MEMORY SYSTEMS.

6.35 DESIGN AND CONSTRUCTION
COMPONENTS AND CIRCUITS - INPUT/OUTPUT EQUIPMENT

2 13 1 22390 A MACRO FACILITY FOR INTERACTIVE DISPLAY.
2 13 1 22518 THE TABLON MASS STORAGE NETWORK.
2 13 1 22521 3-D VISUAL SIMULATION.
2 13 1 22523 COMPUFILMS: A COMPUTER ANIMATION PROCESS.
2 13 2 22592 THE PRODUCTION OF MACHINE-READABLE TEXT: SOME OF THE VARIABLES.
2 13 2 22600 STRATEGY FOR THE DESIGN AND EVALUATION OF AN INTERACTIVE DISPLAY SYSTEM FOR MANAGEMENT PLANNING.
2 13 2 22606 DISPLAY SYSTEMS.
2 13 2 22627 CHAIRMAN'S NOTE.
2 13 2 22627 THE USER INTERFACE FOR INTERACTIVE SEARCH. (PANEL SESSION)
2 13 3 22726 EXPERIMENTS WITH A LINE PRINTER FOR GRAPHIC REPRESENTATIONS.
2 13 3 22745 THE TELEVISION/COMPUTER SYSTEM - THE ACQUISITION AND PROCESSING OF CARDIAC CATHETERIZATION DATA USING A SMALL COMPUTER.
2 13 3 22748 REAL-TIME DISPLAY SYSTEM OF RESPONSE CHARACTERISTICS OF MANUAL CONTROL SYSTEMS.
2 13 3 22793 COMPUTER-ASSISTED TRACING OF TEXT EVOLUTION.
2 13 3 22874 AUERBACH TERMINAL EQUIPMENT DIGEST.
2 13 3 22875 OCR ENTERS THE PRACTICAL STAGE.
2 13 3 22884 DISPLAY PROCEDURES.
2 13 3 22885 MANAGEMENT BY COMPUTER GRAPHICS.
2 13 4 22936 COMPUTER-AIDED DESIGN OF MECHANICAL LINKAGES.
2 13 4 22959 BOEING: FEASIBILITY STUDY FOR A COMPUTER GRAPHICS INSTALLATION.
2 13 4 22960 FORD MOTOR COMPANY: A DIRECT APPROACH TO COMPUTER GRAPHICS.
2 13 4 22964 ALCOA PICTUREPHONE REMOTE INFORMATION SYSTEM (APRIS).
2 13 4 22965 COMPUTER SUPPORT FOR AN EXPERIMENTAL PICTUREPHONE-COMPUTER SYSTEM AT BELL TELEPHONE LABORATORIES, INCORPORATED.
2 13 4 23088 PARAMETRIC FONT AND IMAGE DEFINITION AND GENERATION.
2 13 4 23089 AN INTERACTIVE GRAPHICAL COMPUTER SYSTEM AS A PORTAL FOR PERCEIVING ENGINEERING PROBLEMS.
2 13 5 23276 A DISPLAY PACKAGE FOR CAD OF CONTROL SYSTEMS.
2 13 6 23350 ON-LINE TEXT EDITING: A SURVEY.
2 13 6 23364 TENEX, A PAGED TIME-SHARING SYSTEM FOR THE PDP-10.
2 13 7 23506 PROGRESS IN DOCUMENTATION: MICROGRAPHICS.
2 13 8 23605 THREE-DIMENSIONAL COMPUTERIZED DISPLAY OF PHYSIOLOGIC MODELS AND DATA.
2 13 8 23614 ENCODING TECHNIQUES IN DUTCH HISTORICAL LEXICOGRAPHY.
2 13 8 23716 DATA RING ORIENTED COMPUTER NETWORKS.
2 13 8 23717 DESIGN INNOVATIONS OF THE IBM 3830 AND 2835 STORAGE CONTROL UNITS.

6.35 DESIGN AND CONSTRUCTION - COMPONENTS AND CIRCUITS

72 13 9 23808 TERMINAL ACCESS TO THE ARPA COMPUTER NETWORK.
72 13 9 23852 THE EXTERNAL ACCESS NETWORK OF A MODULAR COMPUTER SYSTEM.
72 13 10 23953 VIRTUAL MACHINE COMPUTING IN AN ENGINEERING ENVIRONMENT.
72 13 10 24000 COMPUTER GRAPHICS TERMINALS - A BACKWARD LOOK.
72 13 10 24004 THE FUTURE OF COMPUTER GRAPHICS.
72 13 11 24080 THE TERMINAL IMP FOR THE ARPA COMPUTER NETWORK.
72 13 11 24100 BLOCKS- A NEW DATATYPE FOR SNOBOL4.
72 13 11 24107 EXPERIMENTS IN PAGE ACTIVITY DETERMINATION.
72 13 11 24108 THE EVALUATION OF A TIME-SHARING PAGE DEMAND SYSTEM.
72 13 12 24224 STANDARDS.

6.36 DESIGN AND CONSTRUCTION
COMPONENTS AND CIRCUITS - AUXILIARY EQUIPMENT

72 13 7 23502 TELEPHONY AND THE LIBRARY.
72 13 8 23719 VISCOELASTIC BEHAVIOR OF COMPUTER TAPE SUBJECTED TO PERIODIC MOTION.
72 13 12 24293 AN ADC CONTROLLER AND MOS BUFFER FOR THE LABORATORY-ORIENTED COMPUTER.

6.39 DESIGN AND CONSTRUCTION
COMPONENTS AND CIRCUITS - MISCELLANEOUS

72 13 3 22789 A PREEMPTIVE PRIORITY MODEL WITH TWO CLASSES OF CUSTOMERS.
72 13 4 22934 AUTOMATION OF ETCHING-PATTERN LAYOUT.
72 13 4 23082 MANUFACTURING COMPUTER PRODUCTS.
72 13 5 23251 OPTIMIZATION METHODS FOR PROGRAMS OF THE SEQUENTIAL FAULT DIAGNOSIS.
72 13 5 23265 THE STAR RING SYSTEM.
72 13 8 23643 QUINTUPLING THE SPEED OF THE PDP-8 DF32 DISK SYSTEM FOR REAL-TIME USE.
72 13 8 23720 THE COMPLEXITY OF A LINEAR DECODER.
72 13 10 23993 ON SCHEMAS ON FUNCTIONAL ELEMENTS WITH DELAYS.

6.90 DESIGN AND CONSTRUCTION
MISCELLANEOUS

72 0 0 1 INSTRUMENT MAINTENANCE MANAGEMENT, VOL. 8.
72 13 6 23364 TENEX, A PAGED TIME-SHARING SYSTEM FOR THE PDP-10.
72 13 11 24081 COMPUTER COMMUNICATION NETWORK DESIGN - EXPERIENCE WITH THEORY AND PRACTICE.
72 13 11 24083 EXTENSIONS OF PACKET COMMUNICATION TECHNOLOGY TO A HAND-HELD PERSONAL TERMINAL.

7.00 ANALOG COMPUTERS
GENERAL

72 0 0 102 ELECTRONIC ANALOG AND HYBRID COMPUTERS (2 ED.)
72 0 0 141 ANALOG COMPUTATION AND SIMULATION.
72 13 1 22520 ANALOG COMPUTING MACHINERY WITH VARIABLE STRUCTURE.
72 13 5 23096 A NOTE OF HISTORY.
72 13 8 23721 ANALOG AND HYBRID COMPUTATION.

7.10 ANALOG COMPUTERS
APPLICATIONS

72 13 1 22520 ANALOG COMPUTING MACHINERY WITH VARIABLE STRUCTURE.
72 13 1 22522 SIMULATION OF THE SWITCHING BEHAVIOR OF P-N JUNCTION DIODES.
72 13 2 22570 GENERALIZED ALGORITHM FOR THE SIMULATION OF UNSTEADY FLUID FLOW IN MECHANICAL SYSTEMS.
72 13 4 22937 ANALOG SIMULATION OF PARTICLE TRAJECTORIES IN A CYCLONE SEPARATOR.
72 13 4 23048 MULTIVARIABLE FUNCTION GENERATION FOR SIMULATIONS.
72 13 5 23161 IMAGE PROCESSING BY AN OPTICAL ANALOG DEVICE.
72 13 6 23356 A HYBRID CONTROLLER FOR PSUEDO-OPTIMAL FEEDBACK CONTROL OF NONLINEAR SYSTEMS.
72 13 9 23748 ANALOG COMPUTER MODELS OF 'THE WOLVES OF ISLE ROYALE.'
72 13 9 23764 MULTIPLE MODEL APPROACH TO UPTAKE AND DISTRIBUTION OF HALOTHANE: THE USE OF AN ANALOG COMPUTER.

7.20 ANALOG COMPUTERS
DESIGN, CONSTRUCTION

72 13 1 22520 ANALOG COMPUTING MACHINERY WITH VARIABLE STRUCTURE.
72 13 4 23083 ON THE POSSIBILITY OF APPLYING CONTINUOUS LOGIC IN THE ANALOG TECHNIQUE.
72 13 4 23084 ANALOG AND ANALOG-HYBRID COMPUTER PROGRAMMING.

7.30 ANALOG COMPUTERS
HYBRID SYSTEMS

72 13 1 22465 HYBRID COMPUTER INTEGRATION OF HYPERBOLIC PARTIAL DIFFERENTIAL EQUATIONS BY A METHOD OF LINES.
72 13 2 22579 MULTIPLE CHANNEL DIRECT DIGITAL RECORDING OF EEG DATA.
72 13 2 22706 ANALOGUE-TO-DIGITAL AND DIGITAL-TO-ANALOGUE CONVERTERS (BIBLIOGRAPHY).
72 13 3 22876 ON THE HYBRID COMPUTER SOLUTION OF PARTIAL DIFFERENTIAL EQUATIONS WITH TWO SPATIAL DIMENSIONS.
72 13 3 22880 THE APL TECHNICAL APPROACH TO REAL-TIME, INTERACTIVE, MULTIPLE-COMPUTER SIMULATION SYSTEMS.
72 13 4 22927 SOFTWARE VALIDATION OF THE TITAN IIIC DIGITAL FLIGHT CONTROL SYSTEM UTILIZING A HYBRID COMPUTER.
72 13 4 23084 ANALOG AND ANALOG-HYBRID COMPUTER PROGRAMMING.
72 13 4 23085 SIMULATION-LANGUAGE-GENERATED STATIC CHECKS FOR HYBRID AND ANALOG SIMULATIONS.
72 13 5 23223 HYBRID SOLUTION OF PARTIAL DIFFERENTIAL EQUATIONS BY APPLICATION OF INVARIANT IMBEDDING TO THE SERIAL METHOD.
72 13 6 23356 A HYBRID CONTROLLER FOR PSUEDO-OPTIMAL FEEDBACK CONTROL OF NONLINEAR SYSTEMS.
72 13 8 23615 THE COMPUTER AS A MUSICAL INSTRUMENT.
72 13 8 23693 AN EFFICIENT PROGRAM FOR REAL-TIME ASSIGNMENT OF JOBS IN A HYBRID COMPUTER NETWORK.
72 13 8 23721 ANALOG AND HYBRID COMPUTATION.
72 13 8 23722 AUTOMATED PROGRAMMING OF ANALOG HYBRID COMPUTERS - A REVIEW.
72 13 10 24005 A VERSATILE COMPUTER DRIVEN DISPLAY SYSTEM FOR THE CLASSROOM.
72 13 11 24094 HYBRID - A USER-DEVELOPED HYBRID INTERPRETIVE LANGUAGE.
72 13 12 24293 AN ADC CONTROLLER AND MOS BUFFER FOR THE LABORATORY-ORIENTED COMPUTER.

7.40 ANALOG COMPUTERS
PROGRAMMING, TECHNIQUES

72 13 4 23084 ANALOG AND ANALOG-HYBRID COMPUTER PROGRAMMING.
72 13 4 23085 SIMULATION-LANGUAGE-GENERATED STATIC CHECKS FOR HYBRID AND ANALOG SIMULATIONS.
72 13 8 23722 AUTOMATED PROGRAMMING OF ANALOG HYBRID COMPUTERS - A REVIEW.

8.10 FUNCTIONS
SIMULATION & MODELING

72 0 0 79 SIMULATION AND GAMING IN SOCIAL SCIENCE.
72 0 0 141 ANALOG COMPUTATION AND SIMULATION.
72 0 0 146 PRINCIPLES OF MODEL BUILDING--THE CONSTRUCTION OF MODELS FOR
72 0 0 170 MINICOMPUTERS IN DATA PROCESSING AND SIMULATION.
72 0 0 186 INTRODUCTION TO LINEAR MODELS.
72 0 0 191 COMPUTER-AIDED MODELING FOR MANAGERS, DECISION ANALYSIS.
72 13 1 22520 ANALOG COMPUTING MACHINERY WITH VARIABLE STRUCTURE.
72 13 1 22521 3-D VISUAL SIMULATION.
72 13 1 22522 SIMULATION OF THE SWITCHING BEHAVIOR OF P-N JUNCTION DIODES.
72 13 1 22524 SIMULATION OF SEA SHELL PIGMENT PATTERNS USING AN INTERACTIVE GRAPHICS SYSTEM.
72 13 2 22533 PROSIM V ADMINISTRATOR'S MANUAL: PRODUCTION SYSTEM SIMULATOR.
72 13 2 22537 SIMULATING A SMALL MACHINE FOR TEACHING PURPOSES.
72 13 2 22573 THE BRIEF DESCRIPTION OF THE COMET SYSTEM.
72 13 2 22629 DATA TRANSMISSION NETWORK COMPUTER-TO-COMPUTER STUDY.
72 13 3 22716 CYBERNETICS, SIMULATION, AND CONFLICT RESOLUTION.
72 13 3 22725 NUMERICAL SIMULATION OF SUBSURFACE ENVIRONMENT.
72 13 3 22733 DIGITAL SIMULATION OF THE GENERAL ATMOSPHERIC CIRCULATION USING A VERY DENSE GRID.
72 13 3 22746 SIMULATION OF A MULTIPHASIC SCREENING PROCEDURE FOR HOSPITAL ADMISSIONS.
72 13 3 22747 SIMULATION OF AUTOMATED MATERIEL-HANDLING SYSTEMS USING GPSS.
72 13 3 22749 UNDERSTANDING THE OPERATION OF COMPLEX SOCIAL SYSTEMS.
72 13 3 22763 BANKMOD - AN INTERACTIVE DECISION AID FOR BANKS.
72 13 3 22770 URBAN TRAFFIC SIMULATION.
72 13 3 22773 LEARNING PROCESS IN A MODEL OF ASSOCIATIVE MEMORY.
72 13 3 22784 RECOGNITION SYSTEM FOR HANDWRITTEN LETTERS SIMULATING VISUAL NERVOUS SYSTEM.
72 13 3 22785 ARTIFICIAL PARANOIA.
72 13 3 22789 A PREEMPTIVE PRIORITY MODEL WITH TWO CLASSES OF CUSTOMERS.
72 13 3 22877 A SIMPLE THRUPUT AND RESPONSE MODEL OF EXEC 8 UNDER SWAPPING SATURATION.
72 13 3 22878 THROUGHPUT MEASUREMENT USING A SYNTHETIC JOB STREAM.
72 13 3 22879 MINIMUM ALTITUDE VISIBILITY DIAGRAM - MAVD.
72 13 3 22880 THE APL TECHNICAL APPROACH TO REAL-TIME, INTERACTIVE, MULTIPLE-COMPUTER SIMULATION SYSTEMS.
72 13 3 22881 SOFTWARE CONSIDERATIONS FOR SIMULATION HARDWARE IN THE SUPERCOMPUTER ENVIRONMENT.
72 13 3 22882 IMPROVED FUNCTION GENERATION SUBPROGRAMS FOR USE WITH CSMP OR OTHER DIGITAL SIMULATION PROGRAMS.
72 13 4 22926 THE HANDLING QUALITIES SIMULATION PROGRAM FOR THE AUGMENTOR WING JET STOL RESEARCH AIRCRAFT.
72 13 4 22927 SOFTWARE VALIDATION OF THE TITAN IIIC DIGITAL FLIGHT CONTROL SYSTEM UTILIZING A HYBRID COMPUTER.
72 13 4 22928 A STOCHASTIC SIMULATION MODEL OF A CHEMICAL PLANT.
72 13 4 22937 ANALOG SIMULATION OF PARTICLE TRAJECTORIES IN A CYCLONE SEPARATOR.
72 13 4 22947 SIMULATION GAMES AS SOCIAL PSYCHOLOGICAL RESEARCH SITES.
72 13 4 22986 REMOTE REAL-TIME SIMULATION.
72 13 4 22991 THE DATRAN NETWORK.
72 13 4 22995 A DYNAMIC TIME-SHARING PRIORITY QUEUE.
72 13 4 22996 A NOTE ON SOME MATHEMATICAL MODELS OF TIME-SHARING SYSTEMS.
72 13 4 23048 MULTIVARIABLE FUNCTION GENERATION FOR SIMULATIONS.
72 13 4 23070 MONTE CARLO TECHNIQUES FOR STOCHASTIC PERT NETWORK ANALYSIS.
72 13 4 23085 SIMULATION-LANGUAGE-GENERATED STATIC CHECKS FOR HYBRID AND ANALOG SIMULATIONS.
72 13 4 23086 INTRODUCTION TO TRAINING SIMULATOR PROGRAMMING.
72 13 4 23087 MODELING FOR COMPUTING CENTER PLANNING.
72 13 5 23116 THE INTERNATIONAL COMPUTER INDUSTRY: INNOVATION AND COMPARATIVE ADVANTAGE.
72 13 5 23119 DYNAMICS OF MICROBIAL POPULATIONS.
72 13 5 23121 COMPUTER ANALYSIS OF PREDATION ENERGETICS IN THE LARGE-MOUTH BASS.
72 13 5 23122 SYSTEMS APPROACHES TO THE STUDY OF FOREST FLOOR ARTHROPODS.
72 13 5 23128 MODELING AND ANALYSIS OF NONIDEAL POLYPHASE DIODE CONVERTERS.
72 13 5 23130 SIMULATING CONFLICTS OF INTEREST OVER THE LOCATION OF PUBLIC HOUSING WITH THE AID OF A COMPUTER-AIDED SPACE ALLOCATION TECHNIQUE.
72 13 5 23139 THE STORY OF THE DOCTOR, THE MISSIONARY AND THE COMPUTER SCIENTIST - COMPUTER SIMULATION OF A DEMOGRAPHICAL AND KINSHIP MODEL.
72 13 5 23151 NATIONAL ECONOMIC MODELS HELP BUSINESS TO FOCUS ON THE FUTURE.
72 13 5 23152 LIBRARY POLICY STRUCTURE: AN INDUSTRIAL DYNAMICS STUDY.
72 13 5 23153 UNIVERSITY FACULTY RECRUITMENT.
72 13 5 23165 AN ARTIFICIAL PLAYER FOR A BUSINESS MARKET GAME.
72 13 5 23168 A RATIONALE FOR MODELING DYNAMIC ECOLOGICAL SYSTEMS.
72 13 5 23169 EMBEDDING FIELDS: UNDERLYING PHILOSOPHY, MATHEMATICS, AND APPLICATIONS TO PSYCHOLOGY, PHYSIOLOGY, AND ANATOMY.
72 13 5 23201 CEMMA - A LANGUAGE FOR SIMULATION OF DYNAMIC SYSTEMS.
72 13 5 23209 OPTIMAL SCHEDULING STRATEGIES IN A MULTIPROCESSOR SYSTEM.
72 13 5 23256 SIMULATION OF LARGE ASYNCHRONOUS LOGIC CIRCUITS USING AN AMBIGUOUS GATE MODEL.
72 13 5 23270 A PRIMER FOR ECOLOGICAL MODELING AND SIMULATION WITH ANALOG AND DIGITAL COMPUTERS.
72 13 5 23271 PROGRAM RESTRUCTURING FOR VIRTUAL MEMORY.
72 13 5 23272 OPTIMAL DESIGN OF CENTRALIZED COMPUTER NETWORKS.
72 13 5 23273 BUILDING AND USING COMPUTERIZED FINANCIAL PLANNING SIMULATIONS.
72 13 5 23274 ANALYTICAL MODELS FOR LIBRARY PLANNING.
72 13 5 23275 OLDAS: AN ON-LINE DIGITAL ANALOG SIMULATOR.
72 13 6 23305 A DEMONSTRATION OF THE USE OF COMPUTER-AIDED LAND-USE MODELING FOR REGIONAL SERVICE SYSTEM DESIGN.
72 13 6 23307 SYSTEMS ANALYSIS FOR SUBWAY ENVIRONMENT.
72 13 6 23310 THE TEACHING COMPUTER AS A GAMING LABORATORY.
72 13 6 23320 A COMPUTERIZED DECISION-SIMULATOR MODEL.
72 13 6 23325 APPLICATION OF THE BERSIM SIMULATOR TO VEHICULAR TRAFFIC.
72 13 6 23326 BLOCKS: AN OVERLINE DIGITAL ANALOG SIMULATOR.
72 13 6 23328 COMPUTER SIMULATION OF TRAFFIC VOLUME-SPEED DELAY MODEL.
72 13 6 23336 GAMES OF STATUS.
72 13 6 23351 DEMULTIPLEXING CONSIDERATIONS FOR STATISTICAL MULTIPLEXORS.
72 13 6 23353 ANALYSIS OF LOOP TRANSMISSION SYSTEMS.
72 13 6 23355 SERVICE IN A LOOP SYSTEM.
72 13 6 23357 TIME-OPTIMAL CONTROL OF BASIS WEIGHT.
72 13 6 23399 SIMULATION EVENT SCHEDULING.
72 13 6 23400 SYNTHESIS OF MULTIVARIATE GAUSSIAN RANDOM PROCESSES WITH A

PREASSIGNED COVARIANCE.
13 6 23401 OPTIMAL PRODUCTION, INVESTMENT, AND OUTPUT PRICE CONTROLS FOR A MONOPOLY FIRM OF THE EVANS' TYPE.
13 6 23402 BASICS OF COMPUTER SIMULATION.
13 6 23403 TIMING GEORGE 3 - THE QUICK DECISION MODEL.
13 6 23404 MAN/MACHINE TACTILE COMMUNICATION.
13 7 23431 DEVELOPING MEASURES TO REVEAL INDIVIDUAL STYLES IN THE USE OF AN ACCELERATION CONTROL.
13 7 23449 SIMSOC: ESTABLISHING SOCIAL ORDER IN A SIMULATED SOCIETY.
13 7 23486 COMPUTER SIMULATION OF A SELF-PRESERVING AND LEARNING ORGANISM.
13 7 23505 THE EFFECT OF GROWTH ON THE OBSOLESCENCE OF SEMICONDUCTOR PHYSICS LITERATURE.
13 7 23563 SIMULATION.
13 7 23564 MODELING AND SIMULATION.
13 7 23565 ON THE TREATMENT OF DEPENDENT VARIABLES IN THE DIRECT METHOD OF SIMULATION.
13 7 23566 PROGRAMMING LANGUAGES FOR COMPUTER SIMULATION.
13 7 23567 SIM - A NEW SIMULATION CONCEPT.
13 8 23596 HEURISTIC AND LEARNING PROGRAM APPLICATIONS TO THE DIFFERENTIAL DIAGNOSIS OF NEONATAL HEPATITIS AND EXTRAHEPATIC BILIARY ATRESIA.
13 8 23606 COMPUTERS IN ANTHROPOLOGY AND ARCHEOLOGY.
13 8 23609 SIMULATION OF NEURAL SETS.
13 8 23703 FUNCTIONAL SIMULATION TECHNIQUES FOR DESIGN VERIFICATION AND FAULT INSERTION IN ELECTRONIC DIGITAL SYSTEMS.
13 8 23705 THE ANALYSIS AND SYNTHESIS OF METHODS FOR THE MODELING OF DIFFERENT FAULT CLASSES IN A DIGITAL LOGIC SIMULATION SYSTEM.
13 8 23723 A PRELIMINARY PRINTING OF A GPSS PRIMER.
13 9 23731 MAN-MADE SYSTEMS AND THEIR DESCRIPTION.
13 9 23747 A COMPARTMENT MODEL SIMULATION OF SECONDARY SUCCESSION.
13 9 23748 ANALOG COMPUTER MODELS OF 'THE WOLVES OF ISLE ROYALE.'
13 9 23749 COMPUTER SIMULATION OF ENERGY FLOW IN CEDAR BOG LAKE, MINNESOTA, BASED ON THE CLASSICAL STUDIES OF LINDEMAN.
13 9 23756 CHEMICAL PLANT SIMULATION: AN INTRODUCTION TO COMPUTER-AIDED STEADY-STATE PROCESS ANALYSIS.
13 9 23778 A PARALLEL PROCESSING MODEL OF MUSICAL STRUCTURES.
13 9 23806 THE USE OF SERVICE TIME DISTRIBUTIONS IN SCHEDULING.
13 9 23857 TIME FLOW MECHANISMS FOR DISCRETE EVENT SIMULATION MODELS.
13 9 23858 IMPLEMENTATION OF A TRANSIENT MACRO-MODEL IN LARGE LOGIC SYSTEMS.
13 9 23859 EFFECTS OF STORAGE ON SYSTEM PERFORMANCE.
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